THE FUNGI OF MANITOBA AND SASKATCHEWAN

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Dr. Robert Newton

R. Hewton



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THE FUNGI OF MANITOBA

AND

SASKATCHEWAN

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PREFACE

Of the services that the subsect of bottomy tenders to mankind, the most resulty recognision and emported are shown that shad directly which economics problems. However, sensitially as morely conclused, and hence worthy of that seast recognition. It is not, perhaps, more related to a generation, noticed by a experiment on an energy tendents, and hence worthy of that seast recognition. It is not, perhaps, more related as a generation, noticed by a experiment on and enger for the error of prospectly, should not a generation, noticed by a support tendent of the engineering of a state of motivation of the inclusion and agreeditural productors. The elements of motivation of the inclusion of the engineering of the information of the engineering of the information of the engineering of the information of the engineering of the engineering of the information of the engineering of the information of the engineering of the engineering of the information of the engineering of th

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Canada, in the following terms:

Canada is indeed fortunate in being served by mycological workers who, in spite of this popular micromergation, soary on research for her benefit, quietly, indifferent to indifferents, unspecturabed by lack of appreciation. Their contextorant and ambition lies in the performance of the duties they have choose; but it is to be hoped that the time is not far distant when they and the arrivale they make we hose; but it is to be hoped that the time is not far distant when they and the arrivales her wonder will be more which and more adoutably recombined.

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"It is to be looped that the importance of betanical knowledge has only been overhelmed, with the third three productions are the state of the state of the state of the state of the data that time is now approaching when the anisations which the obscious of Buttary can render to a country will be more fully appreciated and that time and opportunity will be found to consider the augment accord of the according to the state of the s

Let us hope that this Memor will constitute a stimule to increased activities in time the memority, and to sure approxes function approxy which they made a deposition. The Teneral Contraction of the property of the very let us the any substitutes as all soft in the many part of the property of the very let us the same property of the property of the very let us the same property of the property of the very let us the same property of the property of the very let us the same property of the property of the property of the very let us the same property of the property

4 FUNGI OF MANITOBA AND SASKATCHEWAN

It is, unfortunately, on a cut-of-duc puper that any conclusion is rescaled. Two of the authors, new the for many year lawles to the faithful and centre therings, not had to Candalan gravilaginal research. Dr. Birdy is favoring this fearmer housts to accept a responsible position and the contraction of the Candalan contention of the again years with the finest pulparations of the Directory of Mantilola, Dire expendation of these sums has notedied for keyond the horizon of Mantilola, bande with one the works, for distinguished service that funds projectable of the proprise, and the loss of Candalan to works, for distinguished service that funds projectable of the proprise, and the loss of Candalan contraction of the contractio

H. T. GUSSOW.

TABLE OF CONTENTS

PREPACE BY H. T. GOISOW, DOWINSON BOYANIST

XVIII

		PAGE
I.	Introduction	. 7
11.	The Natural Festures of Manitoba	
III.	The Fungi of Certain Areas in Manitoba	
IV.	The Fungi of Saskatchewan, by R. C. Romell	16
	Geographical Distribution	
VI.		14
VII.	New Species of Fungi	17
	Fungi Apparently Absent	18
	Rare Species.	15
	Estimates of the Total Number of Species of Pungi in Munitoba	16
	Statistical Summary	19
	Hintory of Mycology in Manitoba.	
XIII.		90
	Valet	24
		24
XV.	List of Species. Mysothallophyta	24
	Bacteria	29
	Physograpests	90
	Assemyeetes	34
	Basidiomyostes	60
	Fungi Imperfecti.	112
	The Dermatophytes, by A. M. Davidson and P. H. Gregory	141
XVI.	Amendix	141
XVII.	Hest Index	142
XVIII.	Bibliography	174
XIX.	Index to Coners and Orders of Punei	183



I. INTRODUCTION

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amongs the recent around areas to the vertex.

The introductory nections of the proceeding edition (s. The Fungs of Memilelis) have been revised, but to st all the puncts per-resent recenteened have been reposted. All the fungs become in have these precision of the fermander from funkations are made Manaches are reclaimed, and allow a few from pure tower the benders in thatse. The 5 redundered of Alberta, on on far as they are represented in the berhams all the writers. have been added

The satisface door uses here in capture likes an error lands to many instantive the law property and it is now in complete and receive. The flusharithers assume as related plants. The sharker law assumes a related plants. The mathem of the complete and in the compl

For the past thirty-three years the fungs have been readed in Manciola, and following the metabhishment of the Root Remark Laboratory in 1935, Iron tan to Stann workers have emissially studed the fungs or the dominant they engage. In Stantistican myreological work loss areas on continuously sizes 1915 fees Section 1915.

The specce of 'ange reported from Manterina are represented by specimens in the herbarium of the Department of Biology, I surveive of Mantelon, usbin reserving in med to the restrict, in the outery as the 'notify and the 'notify of the centry as the 'notify of the 'notify of the 'notify of the 'notify of the 'notification' of th

The arrangement of the fungs is largely as in The Fungs of Montale. Martin is A Key to the Armonic of Fungs Kerhanius of the Larbons (Line: Home Studies No. 8). But J. T. 28-113. 1980) green a good arrangement of the large, but was revented too late to beliefe here. The written, however, have undoes-word to use summersalare tanascency throughout. They have followed, more whose of accounts, the warrange position for one train groups of Kerth Assertions.

8

fempi, as a sufficated in Section XIII. The genera and species are listed alphabetically under orders or families, etc., the alm bring to achieve a compromise between a natural arrangement and case of lacution of species.

The "Instandent" names of both are usuals used. Crayl, Messaut of Bioma, inventibedition, in Indianoved, entry their order means are one of a sequence' Hast Indianoved. Plant Indianoved Plant I

The distribution within the Province a known for few of the fugus included. Most at them are unlimited, or widespined in the area in which the proper host or institution are present (see Section V on Distribution). Localities of redistributions are given when only one or a few are known, extended the contraction of an area of the first or an area of the first or an area of the first or the distribution are given when only one or a few are known, or a few area of the first or an area of the first or a few first of the fi

The last of Dermatophytes is revised from data by Drs. Davidson and Grugory. The Lichens are not included, since there is sittle to add to the list previously (71) presented.

II. THE NATURAL FEATURES OF MANITOBA

A glabor at a map shows that Manstobs extends from the 40th to the 60th parallel of lands, a distance of more than 700 miles. The writers have not been north at the 5th parallel, and there are few recends of lamp from that trycedopceally interesting regions eccupising more than half of the Powerse. Bouthern Man toba is approximately at the grographic occurrence (North America).

The sea of Manthaw with 150 quare male, of which Lab Wavaque conjugate with 2,000 quarter male, and clearly label (1,000 quarter male). The value is the 15,000 quarter male in The value of continues are contain a compact which believed the contained to the last of waven, and the last of waven and the latter of the contained the last of waven of Angangeron mare without Contained 124 Georgeographic and 424 Georgeographic contained the latter of the

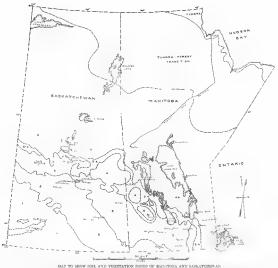
Baskatoh-wan are area of considerable mysolomean interest.

The Host Indian must be well excutes mound of the tense, shrubs, and important cultivated plants of Manatola, but prehaps only a third of the nature heels, since these for the mean part

The rocks exposed at the surface over much of Manitoba are the original Pre-Cambrian cecker. But the sugristion in very sevent all plants now present must have arrived more the air. Pleastone glassical see melticle and disnapressed some 25,000 years ago. The great majority of the (maji of Manitoba have been collected on ground formerly covered by glassical lake Against Manitoba mapper in elevation from sea level at Holdone is flav to shoot 2,000 from it is the following the contraction of the contracti

along the western boundary. Our collections were mostly made at 700 feet above sea level around Lake Winnipeg to 730 feet at Winnipeg and vicinity, but many were obtained at 1,100 to 1,200 feet above the bake of the Woods and Franden, and as high at 2,200 feet at Clear Law.

The precipitation in Manitoba is frequently too small to provide optimism conditions for fungi. It ranges from an animal average of 16 inches in the southwest to 22 inches around Winnipeg and jo estates Manitoba. The himself of the atmosphere is generally low. The temperatures



** Non-rights phase - levels of the Parameter of the colour II of the first phase - levels of the first phase - le



abon the soul materialisestal variation from 90' or even (190' F. or encours to \$0' or \$0' or many helice over to native. The armost average at Worksprig v 30 of 2. Hence during more then a stird of the car the fungs operand their act whom because of mid. their must catch up with the procuracies and work having the temperature of the acquired and a period of damp negative may fell be wreath and fresh and more on that breather a construct, accounts above one. Seemen sworted or proceedation in teatmental . In other words wretern I seeds provides better then average conditions for obtaining long, in the sportstating identifiable condition

III. THE FUNCT OF CERTAIN AREAS IN MANITORA

Most percentages a becoming the west will not be interested in the exact and in Manutolin. or Bush stellarway a niberh a territoriale fundam has been collected. However place or places of millerton, if more statement regard of stage is given for each statement extend excepting exchange approved from each Them becauting a southest on a takely derive to find the opening again and shows in the tage of man arge atom size with which hard on fung, are monotolised. The arms in Manutche serviced more intensive a fee funds are characterized briefly here. Further definds are given in the preceding edition

I The University of Manutche are fee its tendescripts in the six fermerly raised the Mancheta, Agree altura. I sleep and therefore the abbreviation. I may as more most uncloud of "M. A. (Thus a second the hands of the Real Man about four man way to d the inners of the ests of Warmana. Excellent rediction around is available there at the dark of the brehammin. They area is appears man to me or page it is entered and affected the back and if me if the bound distincted start has ad a natural stress the whole breath of the Real River. The major start ergond, the test of labs Agence a recent additions wen the verflowing ever. The trees Are by developing and forces. To have to said I feel out a prohibitional last there are also many for the gent a dense to A great the armen a get I may any your and Auhit many and a rectum contains. The name rouge should not be present to this area make a fortal of around & approve of a new page paint is in the person and house region page, means of the plants cultivat it sat it describe Marrielle are go un there. In this area listed on I mer (LZ motton Scott totacilos need nvan ignut to sessons 200., tuoula

Annual of Australia Woman or and William and name of the Red Royce I action and places up the American Room such as Protago a Place of hard extended angestation. Broaden in on the tourishment Have had there the dra region of mouths store Manet dea or also fromed

7 Lake Winnings is surrounded at the mathers and by marshes or decidence woods. At Vartures Nearth the Castronogerthic are resonant and the and various from party could be clay with all correspond outcome of Proct ambrigate back. I was fee discount that believes the an and and a few and a second and a second and a second as a second a given also as present at the I reversely lost I am one a cone is absent. The shrude and herbe are labor to those parted and fange or A on A figure from and external figureran are present

About 48 server 4 fame have been meretic duties short rests to Autoria Boach. The Hymonemyretes flourish there is a damp autumn Beens Hour buildings on lake Working to the east rode has much the name flows as

Sertions through that more expansive if each and therefore more manages or longe which occupy to depressions of the floor of reach. At the mounts of Person Reservitions in a Point of the Handman's But from mar a summer lan and a raise of perhaps 200 persons durate Indiana. From tooth makes of the conviction or make a format intends intends to take to see a uto a summation for many comments Notice II was fell a not 20 more noth of 8 morest in the 10 particle or in the Notice Borre & few to be well-coast of the most could be a fair thinking. The transports a habitations

and population are secular to those at Perens River the regulation is slightly loss exposure. Queres nor marge rarely area at Herena R ore pratament at Norman Moran as as I may amore erect. National House has been reacted on these proposeds much not done being and about \$100. agreem of famous bears turns collected servical of which are if expected interest. It as the mann morthwell a sales Man Lake in which extensive called one has been done

Maturk Womane Bruch and (unth up the and safe of the stathers met of Lake Womane. have provided a few recurds of busys, but the flore at those points is not much different from that

along the Red Rever

10

- 3. Eastern Manitoba, in this work referring to the mixed coniferous and deciduous woods hardening about thirty-five moles part of W. naires, but to severably like that from Victoria Bouch northward. The vegetation also is similar to that of Victoria Beach and Berons River, but the trees are sughtly larger, and there are to be found in addition Their occurrance. Pinus company, Populus grandidevious and, in the extreme southeastern part of Manitcha and augurent Ontario, Pixur a'rebus. The Warmageg Raver runs through eastern Manitobs, and Laz du Bogqet is an erpannon of that river. The posits vesited have been Lac du Bouret, Point du Bois, and, especially areas near the main highway passing through Resussions to Whitemouth, Renne. West Hard Take and on to Vouvetin and Kenom on the Lake of the Wests. Vous is exactly of Bassacous I tood in and soon the bander a Octavo and M sale at on the more worth of Kenora Indian Bay is on Shoai Lake, corrected with the Lake of the Weeds nut in Man tobs. Kerwatin Kenora, and M naks are a few m les with a Ontario, but the furge found at these posate are included as Manutchan, more there can be attac or no sould that any fungus present would have a cappe extending into the identical termin of eastern Manitoba. It is much less realization to percent a fungus from these points as from Manufolia than to record it as from Datasio, for one naturally thinks that "Ontano" refers to an area more than a thousand more courtlesse of Arnora. Before the recent construction of the highway castward into Ontario, the flora of eastern Manitolia. could be studied conveniently on v by travelling on to the pleasant stations at Minaki or Kenora.
- 4 Clear Lake, in the Riding Mountains National Park is a western Man tobs, north of Brandon Thus beautiful snot, on a plateau about 2.200 feet above sea love, has extensive m.med. woods and damp major-fed glyns. It has notic recently become castly available to travellers. and only two short mycological excursions have been possible. It is sure to become better known in the future
- 5. Southwestern Manutoba, the area south and west of Carborry and Brandon consists of expanses of practic or "Park land" with clumps of trees, and is frequently dry, but in a wetename many interest by fame are to be found. The similar process of southern Saskatchewan have received rather more attention from reverieurs. A few Lang. have been collected in western Manutcha north of the prairies and of the Riding

Mountains, e.g., at Dauphin and Swan River These areas are not greatly different from those around Winn peg

6. Churchill, at the terminus of the Hudson's Bay Railway is Mamioba's seaport near the 50th parallel. Short visits have been made to Churchill by Dr. Margaret Newton and P. H. Gregory, and these mycologists have also made collections along the rathray. Mr. Wm. Gussow has collected sovers, fungs near Churchill and Prof V W Jackson a few from The Pas northward. The northern part of Manitcha is, however, relatively unknown mycologically

IV. THE FUNGI OF SASKATCHEWAN BY R. C. RUSSELL

Following the generous invitation of Dr. G. R. Bishv to publish a list of fung: which have been collected in Baskatchovan with the revised edition of The Fings of Manufole, as complete a last of three collections as a possible has been compiled, and is now combined with the Manitoba. hat. It will become evolunt, upon exertal arrotory, that the Saxxatcheway reflections have been built up by seen with a distinct seasons toward plant pathology, for the parasite functions much more adequately represented in the list than are the suprophytic fung. There follows a brief account of the mycological work which has been conducted in this Province and of some of the features of the topography, soil, and flora

A few incidental collections of fungi were made by Prof. T. N. Willing of the University of Saskatchewan between the years 1910 and 1920. He was also a connect in the writing of plant. mathological I terature in Saviratchewan (57) The systematic collection of Inner in this province became with the establishment in 1917 of the Dominion Laboratory of Plant Publishmen is western Canada with the shed states at Brandon Magnitube and a superlates at Index Sarkets thewan. In 1918, co-operation with the University of Saskatehewan at Saskatoon was arranged and the chief station was removed to Saskatoon in the spring of 1919. Mycological herbana

were developed as the Demonster (absorptory and also so the Review Department of the Conventor I adjustment of famous were arrestly about 10 th were few conventions, successions of the family betted for Statisticheman are to be fround an one or both of the above-mentioned betterm. Personnel or tenurary numbers of the staff of the Dameson Cabonators of Plant Pathology who have served here for groups a sense person of time toward out and 1939 and 1939 and abs have equitable to any the marriages better a here are Prof in P Japan 20-30 P R London. IN It I Pasts IV Margaret Number 200 (by J H trader | mores 2 In P M Substances property of the contract of the con Rosert 55 At . & first 26 69 1 5 Maguer . 3 Adabas cle . It forced 60 It S Suffere 19 6 H W Mead 12 51 61 W 1 Suffere W T Magnets 1 H Se ct I A Monager a and K. . I relegants. Among those withing or sturying in the Perfort a reportment of the I as state of Santatchouse who have made varieties may relead one from the banking and the herbaria and start agethe pears pathological probabilities it he country. Just dowing should be sentenmed for W. P. France JR JR. In to & Lestingham JR 27 is N. J. E. Machamill. In I II I I will do not by the T I hardward the American Profession of Book in the Experience of Supporter was in his study of certain panel metadoscal problems her brought to light according to those and any and according to those life had seen. The J. M. from Margard S. whom and . It Machanest are now at the Rest Research Laboratory of Manager and I . Page and I I I names are former and Wat pagish-

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st where on the map as Rose 6. The abstract of the wooded region earns from about 100 first

must be raptices berifer of the processe for along I 200 feet most the recision limits. The region is received by a strategic of stream and ridger. The trees and alondon in the norm and Process Residence, Programmers, Temporary and Processing, and Processing an

Zone I the Tall turner Park Region, is removed sample of open mendors abstract more or him thereis a th grave but it also contains a few open places and some forceted gross. The hopography varue from evel tracts to areas which are charges rolling, where goods of hills much as the Touckwood H. to you was to builded feet about the general least of the new Though today of this tribe again from along 1 40 test to 2 80 feet. Mach 411 a nor a point big in 2 and the natural on the promounted opens of nontranslate on pools to be upongt me. The oppossible are horses forest as alreaghly and they care greatly a size are along to the season of the your and the carelande a pare pulation on earlies a. Within the most first are also a low sakes if remoderate use such as the Quit Caber. Sport 1 on the law branch is if the Reskatchen an Korr there are several tiers and no the Buffa House is the nost and to the Appello Borr in the rail which his was a manufastable than it waster in the service and or rain or some The problemaging free a the grown of the region is the fre golding people. I special in special Many shruddy servers of makes are present to self or a low side storms of tester and married approve of barri. In the maybenestern part of the some fine a more of some a section Appendix are Quitt a feet from he are to be fingled at the first vallets, where on the month fixed Bookson. Pleas no sens I reactions and I a consume and receive present a a continue to each be propert Press Court Humbohn and Press About a within the new and Indian Head to gong remembership redicting has seen how it the districts out reported these places

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Lote haven as the Short to an Prace Region in beginning account the models restored somer of the produce. It years as allotude from about 2000 to about 4,200 set. Its topic graphs is characterized by greater differences in all tude than that if the three tence presiments described. Process of the larger taken of this more much as I am I direct me have to multi-t They bear to run during a surrous on if relatively a tileratively and for turing your if drought Some car armost reducts tracken recent for on ted areas in the Wast Manuages and Capture Hills and along streams. I special amateur. I become a fix a magazine and France amounts have Mainty-one the hedge gods pure are found to the Expense Hills and Popular app. Apr. A pends and has a one grow in favored breature about the streams at hours wild often The seems and agrees of this arms is due and as much to how a presupplation as to a highest example. from rate. The marm made hower as Channels on a triple that making made at symmetry are very prevalent a this area. Hence the first contains more plants of a result with the true than that of any other poss in the privater. The tapeau Hills which are utually acar the modified cursor of the process and which extend are no the require. It is being a desprise a way automating relievance ground by betanists in the floor of the region metalics make someth formed on more mountainness common to the words and most. They is the mix aftern in Probatche 666. from which the valor sale sure has been reported. The plateau at the top of these belle there has a bounder of abound at 1900 hand. According to another state burder broads of the 1 content. Bills have not here so thoroughly glarated as the remonder of the province. A few recivitiess ad forms have been embound in this district and it seems probable that many information father

will be found there in the future. Bycondie collections have been made in other parts of Zone 1 but much fewer collections have been made here than in Zones 2 and 3.

In the matter of precipitation and rate of evaporation the elemate of Saskatchewan is sven less favorable to the development of fungs than that of Manriobs. For a period of 31 years the average annual precipitation has been 14 34 inches at Saskatoon and for a period of 38 years at has been 18 32 orthes at Indian Head. A few places in Saskatchewan have received stightly lower or harber percustation than them but Mankatons and Indian Hand represent nearly the two extremes as far as available records go. In Zones 2 and 3 there is a tradency for the precipi-Lation to be higher in the southeastern portion, and lower in the northwestern portion of each gone. As pointed out above, the relative rates of evaporation have a great influence on the wastelion resulting from any gave amount of over patation and the rate is much higher in engthwestern than northeastern Saskatchewan. The absorbt of precipitation at any given place warren greatly from year to year. For example, the total precipitation has varied at Naskatona from 10 38 orbre in 4907 to 21 28 in 1927, and at Indian Head from 9 92 to 1931 to 26 92 in 1804. Fairran and rapid variations is temperature are of constant necutrons in this provises. In certain years there is a maximum variation from 50°F in the ninter to 100°F in the summer. However, a great number of steenes of functions are able to survive the rapes of the elimate and flourab to Bashatchewan during the projects when commonwated conditions are favorable to their growth.

V. GEOGRAPHICAL DISTRIBUTION

A careful suycological survey of a region provides data on the geographical distribution of the funct. Manutoha and Saskatchewan are favorably located for noch surveys. The set of Manutchen fungs has arready been used as a basis for study of the problems of distribution of funer. It was monted out in the treversa whiteen (71) that about 60% of the funer they known in Manutchs were known also in historie, a hereas less than 22% of the native inhancement incorred also a hampe. After further study, this comparison if the distribution of fung, and phanerogams was expanded into a paper (60) is which the distribution of various governed fungs was considered, and the available data summarized as follows: the total number of species of fungs on earth is of the same under as the total number of specus of phanerogams, but in any particular state or fromity the steven of and we outsupper the species of phaterogams because of the under average d stribution of the fungs, the smaller the area surveyed, the greater the preponderance of species of lungs, the lungs are predominantly associated with the schaner-space and their Permanus improphytes usually have a water distribution that parasetes, but even obligate parasetes commonly have a host range which gives them a wider distribution than that of their individual bouts, the distribution of hosts and substrata has more influence than estimate factors on the distribution of func-

A discussion of the distribution of the fung as given also in The Funge of Indea by Butter and Huby (2). Myrological comparisons of Indea with Manitoles, and of Indea with Funge, indicate releasily the wird-distribution of large shrout 13% of the Image fusion in Manitoles have been found a India, whereas the precentage of phase-regains common to the two areas much smaller.

The influence of climate in the sixthetistics of longe requires further analysis. It is reduct that climate does have the species of version form, and effects the nature of the fraging flows. If nor compares the bit of longe is a Mynchique of Symerosis of Versions by Cardens and Time, If no compares the contract of t

North Australia has a flora. If phaintengation is the spectra nearly aways different from those of the flow but there is econologially multiplied to the general and families. Dr. Chland has recently published Tuniforum on Ullishbooms and Office Target Freign of North Australia. Many of the Yangs are species found in Manitobs. The following table was made from Part. If if Celland's work and the records here reserved for Manitobs.

14

TABLE COMPARISON OF PARCE COMMON TO SOUTH AUDITARIA AND MANIPOLA

	Total re	No rempre te	Total	Man service A Austraces		
Group	S. Aust	Man. & S Aust.	и Жи.	an ft days	speries in Man.	
Auro, Tress, Deer Theirphomorese Clavariacese Hydiacese Polyperacess	LB 222 14 29 86	4 6 2 4 16	26 122 25 41 26 26	27-8 27-3 12-5 68-6 18-8	20 0 4 5 6 1 7 8 15 7 67 5	

Bouth Australia has a more varied flora of Conteromycetes than has Munitolia, perhaps Manutoba has more varied Thelephoraceae. But the widely separated areas have similar floras of fungs, and many species in common. About 18% of the Polyporaceae are cummon to both areas, but only two species are recorded as common to this list for Manutobs and to that of Overbolts in Mycologicas Explorations of Venezuela

It is booms that mycologists who are studying certain groups of lung, may find the records in this publication usefu, in determ sing the geographic distribution of species. It was be undershood that a species is not necessar. V absent from Man John of Saskatchewah because it is not listed here, and in a few cases may not be present even though listed, since some errors of determinature are inevolable. In Disturble, for cramine, two absence furnishing known only in Europe are included. Dr. Websiever comments in his lifting in the value of such Canadian records in adding to the knowledge of the distribution of the fung-

Haprophytic fung; must develop upon dead vascular plants and their remains, however fur these sujetrata may extend, but parasite funds may sometimes be left behind as a bost thins out near the end of its range. Thus, for example, Take overcome is near the end of its range at Winn, new sta foliage is almost free from parasites, but numerous appropriate furns have been tollected on dead parts (see Bost Index | Some of three saprophytes however, may not be especially adapted to Tilia. Species of Populus, on the other hand, are predominant around Wittenpry and fung capable of attacking the remains of poplars must find much scope for their activities, as well as much competition. The Host Index provides good evidence for the wide distribution of fung.

The host associations, in wintern Canada as elsewhere determine the type of fungua flora to be found. The fung: in the deciduous woods around Winnipeg are different from those found in the conferous ferret forty miles enetward, but the fung 200 miles north in conferous woods are very similar to those found in such wronts in mouthcastern Manitolin. There is a vast differrans between the fungs found on a practic and those found in an adjacent area of woodland.

VI. IMMIGRATION AND ECOLOGY

I Immigration. All plants as remarked above, must have touristed into Manifolia during the period of approximately 2,,000 years since the Glarial Period came to a close. Fungs and higher mants are still arriving. Within the last century man has mirriduced many even plants not the Praine Provinces and has brought in needs and parasite fungs unintentionally or the latter may have acrosed by their room methods of distribution. In the Puner of Manufalt (see sum 72) several aprepts of fungs were recorded as having arrived apparently within the preceding denide. Their species included I recyclist spains Parcinia American, P. Sorghi, and Commerce Technic All these funes have remained to take toll of their houts. Some 1929 Systems Corners has been found, first in Naskatchewan then in Man toba, and appears to be established. Racilias awalescens was first reported from Saskatoon in 1932 and was injurious in 1933 and 1934 Parries Valmenerum finally became established on the grounds of the University of Manitobs in 1932, and has been injurious since

Seed plants dusproved "natural y" move rather slowly, and usually remain to hold the new territory they have won But sporce of fungs can travel relatively rapidly and 'ar by air, although they may not be able to take the services over a long winter. The centanging grample is Parcines general wide strives such varies uses need agree, and true do not, excile the first field into the relative as devices and the read-upon of the configuration of the above on page (Figure 1) and the relative and the read-upon of the relative and the relative and

The loansy post functionated an attack for other scale panels, upon it is far in a master to determine imprograms or performance immersional or foliage. It wereas higher that has promittee to ablitude planted and orders assumption for a cold are very as received is made, and that mine of these than in order to other promote. The Internal Representational programs are specified to the cold of the other process and order to the cold of the cold of

2. The offest of venture on longer. Notice in Political Architecture, and Majorkine, as proved of the or of the models, a which they are in Equipment on the compact as the thropic and the supervision of the compact and of venture. A foregoin to prevent the temperature are in the compact and of venture of the control attract, which models the parties are not control attract and or want for the control attract, which models the parties are not control attract and on the parties are not control attract and on the parties are not control attract and on the parties are not the compact attract and other models are not the parties are not the compact attract and other models when models foreign and the control attraction of the control attraction.

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regard/Visia Fings: Further real: has indeed a less species. In this section the names of all regard/Visia Fings: Further real has been delected in the latter of less section of all regard/Visia Fings of the real has been delected in the latter of less section of the fine of fings of the less section of the less of the latter of less of the latter of less section of the less of the latter of less of l

The copy of those long it could are not reversed in the Last of figures. The Porquescene and
special could be a supported by the control of the Copy of the Copy
Memorian. Places Capperson. Fining Disperience of the Shell on the challenge of the
Memorian. Places Capperson in some regularity in succession upon these solutions as in
recorded in The Paning of Mexicoles.

6. Found developing users other found. It is well known that create species of built are deviced as particular of other longer. The Hypersense models a resistor is these opening metastra on the firstly, or result if the construction and their location haste on the Bost location and the found on the Bost location and the construction models are supported in the particular of the particular on the property of the particular on the particular of their spaces. Such Stratefolium many grown the global or construction on a district found to the particular of the parti

Madernum referration in gather extractor is and around Bindaping, but I relised composition has not lover found to be increased attached by parameter fungs. By propose personnel has not hove found in the corporate Agraphic reviews and provided province recording and the proposed province and province an

divolog in mushroom bade and may cause injury

Darwine after Television persons, and understilled goods and lunders may be found on adder paraties of racts. None of the racts of relivered phacts has been found to be checked

appreciably by parasotic fungi.
The hoderne injuneries in no found 178 to develop as an active jurisite upon investions of Fouries citizens was all other minifoling. It is considered to play an important just in preventing

the dominance of root-rotting lung in the soil.

Mi summance of root-rotting lung in the soil.

in the complex "balance of nature."

Lathern are nonetures parantard by funct, but the asserted have not jet been studied.

Lebron or vogetimes pursuitant for from, but the species have not jet have studied. Lebron are commons as epolysics or old wroody frags.

5. Fungs attaching insects. The jet study of real options of grandoppers are majorished at least species or the Annews frags.

1. See Species of the Annews frags.

1.

Them from 1. Propose Lybries that help control aphicle in restaus synce. Lytenesse are somelatines lybrid by other appears if allogoness. Desir is because and if it was have been found a found metric and applies, both the possible impressioner of these fromjes in restalling inserta as registers. Canada has not have investigated. Eabsoulters also and Conference suppose to be rape in the areas Surveyord.

In the areas surveyed.

Inserts are of authorist in the incredignal also because they may carry the pyrmangamys which
displactive runts as Cragge 130-335 has shores. They are known to spread spores of many
fame. They also find uson and detained many access of fame.

6. The fungs of the next. During the part for vestor a general stank has here made of the many as Man time to be seener approximated by M. Timonom and Professor. V. Januar, Three pages '86. 28. 38. have been published which may be consisted for details. Valentepool 199-561 has studied Privage and Objectioner. Asteriovital is the see. The fungs identified from noll are all solvided in the Late of Sheories.

From not are all nethods in the Late of Sporter.

There is a definite flow of Longon in the new commissing of openion of Francishian Augustishian.

Technicense (c) hindere argin. I markium: (c) shadowyritiian. Alternation and other Frango Inspectors, and of certain Macrocales empression species. If Mericantik Marco Aliminia, mas Bharopain.

The sporters of Eth sam, covered to in a feet of a set. So share place.

Parties were too fair of the transport of a critical review of a critical review of the transport of the second property of the second property of the critical property of

Extant lange parheter on over plants were obligated from set. However, in another to the advantage of the present of success to the extension of the extension

produced from the end of the defend. He is retired bound in the relative from a spin and.
Hence large in the end are defer to go in particular as not be recent into if other family. Technologies appears in the found t. To particular is referred in this parameters and so remodered to make the particular as the particular and so remodered to make the operation.

Many our longs are netword in the last of Papers's a threat designation as to the forming from which they were control. The major's area obtained at us may the grounds of the Lastwept of Man Intra. An aperis second are probable under distributed.

The family in highton: Middle superiors develop in inter heal for some tame, a storage

are transportation. An investigation by Burts Jamesen and Temmin CTI showed that is manufactule flow of temp: shoul CI apresess on proceed, in the samples of batter. The better promiserum survisides to perspice butter advises on quite time from sources. The fungs in britter are all engine principally examine model from the suil or paint parts and are side on important unless the butter is follow to length.

in The Jungs on occasion. The importance of eccessivity the graviture of the Practic Procures has bed plant pathologous to make a thorough study of the Jung associated with them. The Lat of Epiceous includes bared estimates of these visitous species of tong. The rates smoot, and other fungs parasitic on the aboveground parts of cereals cause raceh damage. The fungi parasetro on the roots of occase also cause injury, and in making large numbers of isolations from roots various "soil fung," not actively parasitic are certain to be isolated. The Last of Species includes reference to several fungi funno. " the roots of wheat, case, burley, or other grasses. Thanks are due Drs. W. L. Gordon and J. F. Machaeth at Winnings, and P. M. Simmonds and Mr. R. J. Leston born at Sucknison, for proper on acts of three future appropriated with other, works A singer at the just of Junes found upon Trificum acutious, (not Host Indeed will here explain why the victie of wheat are sometimes low.

9 The rate of decay of fallen loss. Fullen from decay with moderate rapidity in Manutobal denute the fact that for four or five months each your needs a balted by freet. A up of Populus, living when out down in the winter of .923-34, about 14 feet in dispater and 5 feet long. was left in the woods. It is still moderately form after thurteen years despute the act, y tica of Force opposed and various other fungi. Decay probably procreds with "normal" rapidity except in waster. It is stated (Leavitt, C., Parast Protection on Canada, 1913) that "in the eptuce region of the Adirendants, tops properly appeal and on the ground will practice y dis-

VII. NEW SPECIES OF FUNGI

It is inevitable that intensive search in regions for removed from myrologically well known areas must result to the finding of audiscribed species. The Funct of Manifeta visualed descriptions of the following new species, the authors being Dearness and Bishy unless otherwise stated Courings Insuran Buller

Lices Sencola Pyronessa cassina Studie curlingera Grundyllium mansiohense Halbansella Linnacos Dearn. Currepails Biolos Dearn

Dufunella requitebraces Leptoephacron rugoon Parenophana rapous Diameetta Vilsarni

Sporobolomucas office Harma Hypholoma longsper (- H, elempatapes)

Cerossiora manifolma J J Davie

Caroosentaren Lannelos Corcesporella Ges Ramularsa occuses

R. sepuns Eccasions Payab Trichosporson paraniseum

C parwisparus Buller

C atellotes Buffer

Colletotrichum Humula Denen. Glocosporium spachecum Marzeonag Amileoine Dearn Heteropolollo Vilnera

All them species are listed in this educan with further data whenever possible, and with changes of genus in two or three cases. Two new varieties were described. Gasesomesia Corn's metal of colorada annel Diferentias abotestamiliana man accomunica New species from Manutobs described previous to the publication of The Fungs of Manutoba

ere the following Didunesahnersa manifebrenes Ell and Ev Continues sententenavale Part. Presiscent afontables Burt Psychocoster subscription Load

Maragonia Souchi Dagm and Bishy Sentucionary changlesdeum Denry, and Ruby. Phillosticia Proposorphali Doarn, and Bioby. Senturus Somebugrounds Dearn, and Bishy Sanonaspera Amerpine Dearn, and Breby Caluadrus perison eibirieum Deam, and Blaby

These species will also be found in the List of Species. For the Psychogaster, see Scherma

Vanterpool and Ledingham (55) described Legens reducteds as a new group and new species. and Vanterpool and Truscott (55) Pathium refuture as a new species and P. arrhenements van 8005-A

18

encodensis ma new variety. In their studies of the Phyconyretre assertated is the certal roots in Similarchievan. Cumurhievan stephole is brong described by Deursies from Haskatchenan, and Finishman Milains is no published by Deursies and Bastierd from Alberta. Biref notes on these funging anymy below.

Collections during the past we years have brought to light a few sen aperois, but they will be described elsewhere except for f receivers. Halenson which is described below.

VIII. FUNGI APPARENTLY ABSENT

In The Frag of Massier, and argine was represent at the above from the present of retarn Ling minimal and being its "state lines," this is the species was maximum, described by the species of the spec

Changing from an personnel most mode with many sorts into reducers upon the darkbottom of final, a side results. Furgue manifer managing right man activation reduced believed by a fixed or solventa, hashle are principle. For personaphire. A worthfore instant, and the solventa of the solventa hashle are principle in Formanish the contraction of the contraction of the solventa hashle are principle in the contraction of the solventa of the darks and greatly formation. If a mortistic half in native that contraction and another than the contraction mankwork is both have finded to induce a many experient of Vertical or I seemed for recover and as well as the contraction of the contraction to the Finalmonton of the contraction to the Finalmonton of the contraction of the complete the appropriate of these propers, and thank around of the complete theory of some of the contraction of the complete theory of some of the contraction of the complete theory of some of the contraction of the complete theory of some of the contraction of the complete theory of some of the contraction of the complete theory of some of some of the contraction of the complete theory of some of the contraction of the contract

Many Sungi found in Europe or Ann are almost from North America, and see west, yet about half the meeter bound in Mandeba are known about it Future.

IX. BARE SPECIES

Reveal fungs are sare in Mantoha berson of some host relationship. Furdiscut hypothehab bere fund his one-light of better and and not one-general discovering Mantoha, and in many parts no risk are proposit. For the inner reson, probable. Polyprox resonance is not Polyprox resultance and PS symbolic has been been seen and the polyprox resonance of some underlying manufacts in host or substitution. In Julyana Kin in reson had not not not retractionaring grown. Chapater factors disables registrate the parts of everytain parasite of spirityrized plastics, and

an European Explore Explored Explored Scale Conference occurs on the Conference of Scale Conference of Sca

Beveral Image grows in the Last of Species are rare not only in Manticka but throughout North America. This is not supprioring. The apparent ranty on some cases in due only to airth of knowledge of the react place in which to look for the species. Most superioring for the rare spinner, and would rather find a rare fungus than a new spinner.

X. ESTIMATES OF THE TOTAL NUMBER OF SPECIES OF FUNGI IN MANITOBA

In The France of Mentiloda scienation were made as to the total number of spoons present admittable. These estimates were boated upon numbers havenous — metheria Energye in Mentiloda. These was defined being recorded from North Dislota. Further confecting during the past every span that adult down very long recorded from North Dislota. Further confecting during the past every span that adult of wor 100 species to those fewers in Mantidoda, and the cold at still fire away. I talk one be saided to the estimates powerised presented. Among the properties of the saided to the estimates powerised presented in Mantidoda. The told long revery policy domators drevy, he kworn, length of patients of the present in Mantidoda. The told long revery policy domators drevy, he kworn, length of the properties o

XI. STATISTICAL SUMMARY

SCHEARY OF THE HUMPERS OF PUROF RECORDED IN MANERONA AND SANKATCHEWAN

_	At Univ.	In Seek.	lo Saak and Men	Total va Sash	Man. only	Total pr Mus	Totas included
Myzobast Accasone Myzonyones Barterm	75 18	i	- 5 14	- 6 16	4 93 13	01 25	99 25
Phytomyeres Archimyvotes Comyories Zygomyooles	33 32	1	20 5	28 3	83 42	43 67	1D 51 47
Ascomycetos Picer Escascales Hevelisles Postasies Plasted Hymorodas Tuber, Perispetance, Hymorodas Dothal, Microthyr, Balascrates Laboul	10 10 222 13 16 23 4 293	1 - 4 - 3 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	4 4 31 31 32 32 31 31 31 31 31	5 4 15 15 6 78	10 17 150 31 6 97 9	21 167 26 26 26 20 11 286	16 21 171 40 21 58 13 280
Basilinterycotes. Sparolotecytostales. Unitegration Unite	8 24 65 62 77 11 19 69 4 312 19	37 1	22 100 2 9 1 10 11 8	26 146 2 10 10 10 11 20	8 20 47 122 122 123 123 123 123 123 123 123 123	3 42 365 34 55 55 51 105 563 60	28 455 384 123 25 24 165 26 18 863 40
Fungs Imperiori: Novimales: Magnesonales Subarropsidales	273 32 163	14 2 15	75 17 69	80 19 74	305 48 181	380 65 240	394 67 266
Deresatepty tes.	-	-		-	11	L1	13
Totals	. 927	153	478	599	2 155	2,638	2,765

the University of Manitoha, where the ground has been covered more thoroughly covered fungi enumerated as Manitohan in Table II above were collected just over the border in Osteren Twe of the Unreliance in the column marked "Sackstoberson only" were collected

in Alberta. No entry an aquare brackets in the Let of Species as counted here.

XIL HISTORY OF MYCOLOGY IN MANITORA A brief account of the development of myrology in Saskatcheron is given in Section IV

The Force of Manuale group details of the lessons of marchany in Manuals up to the close of 1928. This historical account is here summarized and brought up to date

The first definite observations of fungs in Manutoba were mude by John Deargess, who us 1891 collected Distanceptores manifoliaries, described in 1882 by E. s and Evertart. Dr. Dearness found a few other functions known to be common, one adopt Purcture growing

Dr. Buller came to Manitohs in 1904, and life studied the fants near a recen automa and winter since. He has numerical many important facts numerically harden of the func. His

broad knowledge of the fungi, melousing many Furrisean species has been of invaluable assistance The Craude brothers of Twestonk have long been priorested - natural history - The late

Norman Gridale collected and made drawings of various larger fungs. Mr. Leelyn Criddle has collected the rusts of the region, and Stuart Criddle has contributed to the knowledge of Picaporus tuckshee and the funci stored by socurrele

Professor W. P. Frozer spent the years 19.7 and 1918 at Brandon Manitona. He collected and entired a number of rusts and many 1918 has continued by revenuence, work in Soakabchewan. His studies of the Uredinates have ninde possible the emperhensive hid presented

Measure 1 L. Conners and G. R. Budor arroyer, in May turn in 1920. Mr. Conners natified Professor Fraser in his survey of the rusts of the Prairie Prov need and has done much myecooglest work before and since leaving for Ottawa in 1929. The Dominior R of Revearch Luburatory at Winning has continued with acrossing activity unite its establishment in 1923.

XIII. THE GROUPS OF FUNGI, AND ACKNOWLEDGMENTS TO MYCOLOGISTS

General observations on classes, orders, families, or genera of the fung: included are made here to avoid interpolations in the List of Species.

A list of fung is of little value unless dependence can be peared upon the determinations. The writers therefore have sought expert outputs wherever pear ale, and are grateful to the mycologists now to or mentioned, who have specificach time and effect on energyment substitled to them. There specimens sent to other laboratories will facilitate further stony of many species."

The Manufacturer on have been student but baths in Manufact. The three success stated were determined at W na pay, and others have been seen. (areful search would no doubt bring to light severy, of the Accordes. Distance-born is fauly common

The Myzonyrotas have not beer interserely collected in Manstolia. Neverthelms 92 america and 7 varieties have found their way into the herbarium. This is about 25% of the total Synony on carts. MarBindo and Martin list 200 spaces in their record book. The Various release Thus work and Laster's Muretana have been of great acrosse. Dr. W. T. Muret and Dr. John Descripts have communed many collections and Max Latter and Dr. G. W. Martin have determined a considerable number, particularly of the parer species. The names of species pan he considered correct unless doubt as expressed regarding them.

In The Augus of Mandake an attempt was made to summarise the Myzemverte flora of Canada, and it was found that 134 energy and 15 varieties were then known for the Dominion. A few species are recorded here as additions to those previously known in Canada

The bacteria parameter on cultivated mania are nebulad for the convenence of pinet pathon logists. Elliott's Manner of Bacterial Plant Pathogens and been used for stentifications, but Migula's avoters of classification is followed. Dr W. A. F. Hagberg, of the Rust Research Laboratory at Winnesse, has assisted in preparing the list. Severa, bacterial discusses are m-

* Exture students of regulatory is preserve Consider most well used consecut similar to the Fines Debotmen. distributed by Brenchie Servest fungs recorded herein could sent ont by Dr. Brenchie for mycologists everywhere to sinds.

jurious to ctop plants in Manitcha and Saskatchrican.

The Fungs of Municipa based on a 44 Phonometries. The present but contains 169 entress. There are also make more to be imped in Manufactur and Substitution as ... I so the present arrangedon't it the Pharmagaintes I topotron to . Fange Pharmagain has been deeped Languages . * Apparent a the group Por or oping a good actions? he down specific had retained many and the state of the ball of the state and State to Secretary and Personners codes a far or upon relative des reach and taken Propagation was be fault number on all he heart of one in it was particular as a shirt toronto on a 1927 and represed 1970 or 72. There's applican are within ready programs to militariated plants in the Paris Principles. A read to pass and of the man down format as here wounded The san Law setup a law or a street Support house I may be of the Place adminish or Man constitutions have been a course in a second ray and the decay or derivative decaded represented. Man a problem to properly the engagement of streets in the section of a section of require Posts Mar rate at his net nettering or ratio and free toom on fetermand spectra are known to be proved to both I fact to Imperior Michigard Institute a him has alreaded more different and and the state of the stat The service on the hard had divined most re-united to more Proceeding and

Mean that is a second of the s

security of the second sec

The laterature are a squared of common who sports of wastern t another. The two against a strain at 1 to 10 to 10

The most case of home delegant cream the Price Price of he shore. Revend mode death reference which will be all here expenses with a condition of the control of the control of the condition of the control of the cont

W. P. Prancis and the first transfer that the state of the restrict and the continued present message. We have a second of the first and the f

The Agrangamate. Transitation and incrementation origin a few common openes and fewer para men, but those nedere have never received particular study in mention Capado. The

The supersever are also present in againers in the Mandolms words. This family has an about discount for the arters, but Professor $W \subset \mathbb{C}$ where has identified most of the assessment sent to him.

animorbous operations of the United States of the Conference of th

as other species from Maritides. The momentumer of I. H. M. ter's from end who excer possible. The proofer Polygoriese of Maritides are existent mosts's basens. Continued indicating dering the point set screen has about out as a price in the set gives on Test's out. We should Dr. Monore has examined many operations and practically serves species has abortones existently the Orthodologies. The greate Possible or memories for the adoption of the origin are proposed as the time verified by the Orthodologies. The greate Possible or memories for the adoption of the origin are a period of the Orthodologies.

The Bideferror gave touch works unto the W. H. Sective the distribute the father than the presence one and the sproper

This liveramminered contexts a determinant unions a spacey compounded.

The Procedurems and manny Againsteiness are root sets: (a the versions of certain trees or durable, with which fore have him contributed or their neglection of restrictions from Process 8 uniquests workings.)

aught which their have miscorrhical as when bufstened riskstenedajus. Percent lampans werfland have percented lests of singer fungs in his found assertantly with nassus wards plants. De Buller has made a fee attacks attacks, but little of the nature has been done on Missirion. The Agreement News to be for the mid-fresh to their titles for the nature has been done on Missirion.

and methodrical in methods and included in a better that the contract of the c

symbols in Ministria, who multi study from querous multi the oil of the and derive fashbool provided again to A. Il. R. Kaue. The neutron is extensive assumed assume on Mantinon and Kanton and Kanto

A measter are trained in common to develope the section. A first other opened of Amendate are to be found in notions principally in metod is sele. We need a market one promoting in Mandoles has been noted used that in 1921 developed in the percentage without one hashes are summitted of one fundal wide.

Armillative solution are trained in the other appears of this grown are misless (outdoor of the debts).

Armillores melles at very remnants, but other approve of this giving are without touthed. Caldidandline in probably represented by two spectra ands from this hold descen lated. Uniterlyin and Callyine would, however, have at least deades the prevent remolecule extram of these gettern were throughly studied. Attempts have been made to been concerned to the species of Hyperspherical forms do not a discussion as with severess these are worthy opened for the form inhumbers and in the state of the species of the state of the species of the state of the species of t

Mans of the Hh-dospurae have been distanted because they rould not be determined with metallic tills? Phieses and Sulvana are presented with an appearable completeness. Means of the Rhodosporae appear to be rather rate.

In the first operar, the genus fortimarius has probably three times as many expresentatives as are given in the somewhat lengths set below. This fine but large grouns is not similarly difficult of one can set up the latest over a tile in mode and study the spress as they develop that revenues in

beought fact, time a river of up up as a trie in restrict or solved that disside the dissect field. In common and for used to a study person across many common that do not seen that as they are fact to the common and the common and

If the Perphysioperus Pusthira and Pubertle need study in Manistolia. In the Minimaspores studies for A. H. M. Butter and W. F. Hanna have clarified the difficult group Coproson, there are few areas on the w. red where coprosine is known on sec. The operas of Gamphadau die not seem to be very well market, and up to use of Panacolas ramos alwars be sheatiled.

The Laterenteering an expanded as on Peterlaneromyce's at the Junior Leaded to trace and Connect to Control Control for a Mandation appears are morphism that produce apspection than cream need many redifference. Lertain carbor condensions were used to be falle C. C. L. Zorol. De Zubete has relevanted the two operation of Hammingstein's which have been found. Publishes as exerc. a Man-toba. The Lyrope relative occur in these usual abundance and the connections Neglaterable in property.

The observations being higherfers are represented in the fast more particularly by parameter on obsolutions prepare for insina, where the more are similarly included. Little has been done in watering a launch to connect these fough is the their perfor stages. It was dead stora, in the fast of been a Prince of consider countries and only a prince of the law for the form of the law for the fast of the first of the first

De J. J. Divo. 4 November 100 studied is represented by Them all species of larger for the Power was entire being to Power 100 studied by the pow

VIV VALE I

All five of the authors of this work have collected funzi in Maritoba. A gamee at the pages remodeling or following will give anyone with the entered of a naturalist sums who of the planette that has some from finding to many function to the endicts woods and fields. from studying them in the laboratory, from obtaining a more comprehensive idea of the fungus flors, and from preadening the concentions of the distribution of the fungi

In some attactors there has been a discontinue to look appn collecting and determining function as "old-fashioued" or dilettante, or worse, but there is a growing real sation that the workers of heaf a century or more ago left sums of this work andone. Certainly no one, up to a few years ago, bad any idea what fungi, if any, coursed in Manitoba and Saskatcherran. A sound superstructure of phytopathology requires a firm foundation of myecogy, and much study of the fungi

of specific areas is needed in many parts of the world. Now al. five of the authors have left Maustoba, although they hope to see fung in or from the province in the future. But the work will go on in Manutoba and in Saskatchewan

XV. LIST OF SPECIES

The fungi lated are from Manutoba whenever no abbreviation is a year for a province, execut that appears marked "Mundo or Kenura" are from advacent Ontario. If found in both Manutoba and Saskatchewan or in Saskatchewan only, the abbreviations are added to specify the provinces. "Law" refers to the vocasty of the University of Manitoba, Winnipeg. Measurements and other data given refer to Manitelia or Stakatchowan collections. Often spors measurements on y are given at the cost of an untry. Rusts, amuse, and many common fungi poed descript we data only in occasional instances, and the entries a some groups are based largely on reports from specialists. The letter "c" in used for eigh-

I forts have been made to have all extators correct and connected. Miss b. M. Waltefield and Mr. I. L. Conners have belond materially in the the ratations. It was been marter-larly difficult to decide upon proper cupital ration of certain names of fungiand of hosts. It might he well to duranta-one all appendic parses of plants, as is done by an increasing number of outarriets. The name of the person who are tifted a species is usually given only with the parer funci. You appears are allustrated here, but Dr. Buller and others have presented many austrations of Manitoban fungi as moved become. Many toanies are due to Mr. 1. L. Connect and Dr. Icens Mounts for young the manuscript entitlesing, and to Dr W P Haven for supplying photographs of Convinue, and for other help.

MYXOTHALLOPHYTA

MYXOBACTERIACEAE Chondronwoos aurentiacus (Bork & Curt.) Thext This species, or perhaps the var fruis-

areas Kraem, was determined from the description and figures of Krzemeniawsk, (several papers in Acta Sor. But. Pointings, 1925-1930). It occurred on the money bark of Populus in a damp chamber. Univ.

erocatus Berk & Curt. Fairly common on camp dong cultures and the decaying stipm of sme. Comm. Law It is of a crosus-veilor color, and acome to fit the description of C crossius. Described and idustrated by Buller (82, vol. IV). Managerous pubercome Thank (M. ruley Bour). Produces book to neares frust-firstions.

with sporm 1-2 a in diameter. From soil, and rather common as a couronbloor species in culture: Keepatim and Univ.

ACRASIEAE

Dictrestellum mucaroids Brof Not uncommon on damp dung endures in the aboratory Daily See Buller (92, vol. 1V) for Shuttestions and chacumian

MYKOMYCETES

Arcyria cineros (bull) Prv. Occasonal on Populus wood and bark, and on old feaver. Lauv densadels. 1) Wettel. Common on old Dipulus cir., Lau and matera blan. One collection monolensi by Man Later to be very near 1 commo f. Later.

- ferrugenes Neuter | Frund over un old Populas, Univ ; det Miss Laster. - Incarratts Pers. Throughout Manufola on aid wood.

- incarnate var fulgena Luter Winning, det Mus Lister

-- Insignia halehor & Croke Pour collections, Univ. Thetermined in part by Miss Lister, mutana Bull. Grey. On old need Visiona Beach set blass Lister meetidentals. Machin Lister and Analysis Machine Lister and Analysis Machine Poundas, etc. Liny and

sollected by Cheesman (106) at Winn.peg psemifarricle Levro Rust. One rollection on out most. I nov., set. Mass Lister

Badhama macracarpa it w. Rest. The sum-shat doubtful specimens from Winnipeg - pages Perk. The conception, see or Popular, Univ. vir field to Man Later

pandon (Fr. Rost. On back of Popular Univ., det C. W. Martin., and on the papalism Later. On back of oath Paris. (Par Lake det Mos Later who writer "rapid-lating on a Challing white in said the consistence of the paris.)

the tookney's feform short grate or data restrictions is talked, the dark pre-horous species, algebby constrored Mayare with Us species. More species show nature or about talget and forfere from the class is atting convering the remainder of the surface. I have reviewed a natisfact Physica and found of a cap year of two the late Produces I leaded not species have from Nematic, Rossiana, that name was not purefunly developed. "

Matternatives, the Phys. Leader Developed and the produces of the purple of the purple

- utricularts the Birk. On Popular, Arteria Brach, on wood, they, det Mus Later Corntisenyus frutaculess (Muri.) Martir - Lemmon at least is eastern Masciobs in damp

urator

Clinelismwisha reticulata Ali & Brhw. Rost. On Populus 1 hiv., det. Miss Lieter. Plannis-diseases a viete than usual. Another rediction reassand by 1tt. Martin was noteworthy

an being apprangiate and without the transverse eararcook bars.

Cornatrichia flaccoda (Luter Morgan On oid Popular Lin v. let G. W. Martin feregularia Res. On old wood, tarman coll A. R. Palinner det. Mine Laster translated by the life of the laster.

typhosoba its: Fost Fasty common on dd wood and leave. Leav. Winning pre Centerium basecocephalium. Fost Vites. Rather common. Normay House to Univ. minutum. (Core) Fr. Victoria Beach, Univ.

Cribraria dictydiaedas Looke & Hall. On anien Pieru, rastern Man., det G. W. Martin uniquaria Setraul. I. sevies seen Schrud. in Machinde and Martini. A specimen, evidently this mences, was redirectly as a faller profile.

this species, was collected on a fallen coniter—eastern Man.

Diachase buildflows. Irish, it through Lister. This say speciment did developing world, Univ.

Dr. Martin consulers the infection to the probability current although the operangua are

not perfect a mature. Previously recorded in a from thitary, I wa, and nothern hain.

Diament Harreys Rev. One realests on of the air species on Popular. Lince: Materi by Main.

Letter I to be typica. Previously recorded only of Matire. Colorably and Great Bertain.

Dictydiaethalium plumburm Policies I Red. Orenions on Craticipa. Francis et al. air.

Dictysium unreciliatum Bateris Marie. To pend sperimen on devaluate acost. Low.

Diderma Chendrisolorema de Bare & Rost. G. Later. Sperimen, apparently this sperime, were collected on Populus bark in eastern Man.

globuscopy Prex. This magnetical rain species has been collected on aid would five times, Kenora, Winninger, Univ., dot. W. T. Ruott and Mon Later

neuron, romnyrg, URIV, det. W. T. Eddolf ARO AND LUSSER.

Thomisphereture. Bull blornen. Found by Rr. Drawnes on grass, etc. sent how from the University.

The sentence of the Control Lake of the Woods. Man, det. W. T. ELastt.

- opunessriades Fr. Rather common on oil fever and need, I nov

Dispression seed to Miss Later On addition of Hessaches in a compensation, Usay, coll. A. M. Brown, det. Miss Later

- erastaceum Fr On dreayed Popular, Lare A zare species, verified by C. W. Martin.

- Didymium difference (Pers.) Duby. This species has been found only in cultures in damp chambers in the laboratory on dung of row and borse, and on old leaves; Dn.v., det. Cl. W. blattin.
- malmospermum (Pers.) Machr On old Populus, Pices, Viburnuro, etc., Clear Laks, Univ., Victoria Beach.
- minus Morg. One collection, Univ., wenfied by G. W. Martin.

 aquarmatosium., Alb. & Sohw.) Fr. Common in Man. on old deciduous wood, dead listba,
- etc, also at Indian Head, Sask.

 ***nanthopsis** (Ditmar) Fr. Or wood, etc., in cultures in the laboratory, Univ., det. Miss.
- Littler Enterdum Rossamum Wingste. Occasionally found in seatern Manitobs, and north to Norsay House
- Fullge intermedia Mache. This western specess was found on bark of Populos at Indian Hoad, Sask by P. M. Simmonds. Spaces mostly .0-12 μ in diameter.
- septics (L.) Weber Common throughout the areas surveyed in Man and Stak
 septics var candida Pers. Also common in Man
- asptica var rufa Pere. Univ., Victoria Beath, probably common.
- asptien vaz violnena Pere. One collection, Violoria Beach
- Hemitrichia elavata (Pera) Rost. Very common Urroughout Manitoba aerpula (Scop.) Rost. Vistoria Beach; det. Miss Later
- atipata (Schw.) Machr. (Arcyrus ripato). Four collections on old wood of Populos, etc., 'Univ., det. Mine Later and Dr. Elliott.
 - vessparium (Botech) Machr. Comman on old decoduous wood, at least along the Red River.
- banks.
 Lamprederma columbinum (Pera.) Rost One relaction at Victoria Beach
 seintillams (Berk. & Breome.) Morean On old issues and fere fronds. Lucy
- -- wiolacuum (Fr.) Rost. Victoria Beach. This and the preceding species determined by
- Leonarpus Fagilla (Dicka.) Rost Found occasionally in the comforous areas along Take
 Winnings
 Leon financial Documes & Bishy Described in the proceeding outton (71–52), type on horse
 - doing in culture data is the absortiony. Use: June sees when the fresh doing had seen a meanth as a shape distalline, and octonious of a separat few a smoot. As no is not over single placed is a more transfer. See § 1931, provenge forms Ins. 21—302. Done for co-cities the major few control of a superior. To hater saterally on ager space (mostly 16–30) as oftant; is no stabled by 15. Martin is supplement the original subsequent of 18–30; as oftant, is not sufficient by 15. Martin is supplement that original supplement of 18–30; and 18
- Lycogala spidendruco (i.) Fr. Very common on old wood in Man, and Stak flavofuseuro: Lbrosb.: Rost. Cellectex at W-mappe by Chresman not found by the writers. Mucillaro monejous (Lays) i Morg. Cempon in Man, and Sask.
- Objectives retrieval (1s) Rord Consistent on Satz size, (saz Ophicitives vernicularis (Schw.) Moreon On old leaves in a moist thatcher, Univ., verified by G. W. Martin
- ny to w makum Perchasana corticalis (Batish Rost Det. Mass Laster and Dr Libet. Machinde and Martin report it as 'apparently not common" in lows and osservator.
 - depressa Lib Rarely found, Univ One collection was stated by Miss Later to have "the
 convex appraising of P covisions and the older regular expalition of P depressa, and
 account the intermediate between these two closely ultical species."
- appears to be incorresponded between states we cross-y mirror species.

 quadrata Mache: Found by Dr. Dearness or wood of Francisca sent h-m from the University grounds.
- Physacralla oblonge (Berk & Curt) Morg One concetton on an old fungus, Univ Physacrum aurtecalptum Cooke — On old Populus, etc. — Univ. Berens River, det. Miss Lister, in perf.

- Physorum bitectum Later On bark of Populus and on decidates wood; Utnv , det. G. W. Martin and W. T. Elhott. blyshe Popy (P. gaussesse (Pall.) Wessen.) On moss and pine zoedles , Kences, Winnepeg.
- einereum (Batesh) Pers. Ocsasional on grass; Univ compressum Alb & Schw. Old wood, and occasionally coprophious. Four collections; Univ., dat, in part by Miss Lister.
- contextum Pen. On Popular, Alon, etc., across southern Man tobs
 differencedes (Ather) Rost. Reported from Winnipeg Beach by Checoman, on moss sear Lac dis Bornet, det. G. W. Martin.
- flavicomum Berk Old wood, Univ, dct. Miss Lister Previously found near Ottawa, considense in the U.S.A., not known in Europe
- 2gatbaum Wingate. One rather doubtful collection, Univ - glabulifarum (Bul.) Pers. On Populus, etc., Univ.
- Pescophamum Fr. Two collections, Univ. and Winnipeg
 motabile Macter (P consonne (Pock) (Lister) On old Populus, etc., Univ., Wirnipeg; not
- -- mutana Pers. On debris, and Populus, atc., Univ., on decayed Picca, Berens River, dat. G. W. Martin.
- nutans var robustum Lutior Ono collection, Univ
 - ablatum Mactir (P. Maydus (Morg.) Toerens). On old Populus, etc., Univ.; det. in part
 by Min Laster.
- rubiginogum Fr On old saves and moss, Berens Rever Victoria Beath, det W. T. Elliott
 and G. W. Martin. A striking species, reddish-brown to scarife-to-ringe.
 sulphureum Alb. & Reitw. On old harbaceous stem, Urov., dot. G. W. Martin. A rare
- supphureum Alb. & Schw. On oud harbaceout sitem, Uzav., dot. O. W. Martin. A raspector. This specimens were stypical in toing store or less sension.
 wirlds (Ball.) Peers. On Populars lett.; Units. V. Storas Beach.
- viride var incanum Luter Two collections, Univ
- Reticularia Lycoperdon Bull Occaviona, Univ and matera Man
- Stemanstie ferrugines Firenis (S. arzjera (Ruf.) Mache). Common at least in anatem Man. ferrugines viz wishees. Mryl. Thus beautiful form, apparently previously known only as Europe and mree thore, was collected on dreavying leavess, (law., vid.y, det. Miss. Laster
 - fusea Roth. Common across Man. and into Saak.

 Tpallida Wingste. One somewhat doubtfus record, Univ.

 wightsames Rex. On decologue weed, Univ. out. G. W. Martin. Mactiride and Martin.
- record this species in North America mily from Virgina, Loria, Ocigin and California.

 Trichia contorta (Digma) Root. Three extentions, on Poptida, etc., Univ.
 - dacipaeus (Pers.) Machy Not uncommon, Uner, Winnepag, 1980 |
 Favegires (Bisseh) Pers This fine sprease was collected near Kenors, det. Miss Luster.

 Revisiorus (Roby) C. Lister, Victoria Rosch, det. Miss Luster, who found the meximum
 - to be typical Inconspicus Rost. On bark of Populus, Univ., det. C. W. Martin, two conections on hard decorning, Univ., dot. J. Doarness.
 - droppings, Unev , dot. J. Dearness

 persimilis Karst. Two cellections, Univ
 - scabra Rest. One collection, Lake of the Woods, Man
- Tubifera Casparyi Rost.) Macbr. Only one collection, and that suspenhat doubtful, on Cermus, Univ.

ferrugissum (Batech) Gmel n Two collections, Victoria Beath.

BACTERIA BACTERIA PARASITIC UPON CULTIVATED PLANTS

it is now widespread in Man. Fire-blight was first reported from Susk, in 1932, when twig infections were noted at Saskinson. A became previous in 1933 and 1934 and enused conadriable damage in various parts of Sask ("Low-va"s": now word for Bardian.)

Bacillus carotavorus I. R. Juzza. Common in Apiero gravesiens, Brazzon alevacea varabategris and captosts. Iris up., Wandpeg and visualty.

bel-spin and copionis Iris up., Wastipeg and vicinity Lathyrs Manna & Tauls. Streak downer of Delwysus observines, probably examed by B Lathyrs, has caused reme injury in Winnipeg. physiophtherias Appel. Hack leg of Solvanin tuberoview is common in Man. and Back. It

sometimes are essisted the repretate of polatics for certification B physiophilonus is near to, or possibly a form of, B corelessoris.

 Sorghs Burr On Holess corresponds and Zen Voys in Man, on the former host also at Indian Head Surk. Companions spots with purple bestlers are penduced.

Trachesphilis F F Smith. W.d of Curumus stress is occasionally seen in Man. but the causal agent has not been studied.

Recharisms Aeropovi Co Gara. Size. On decopyon Smiths. Panaman. Bank.

Transmissardens McCul. On leaves of Gladeship, Winnipeg. This and the mest species would be resected. **Perculcations in the Migula system, but apparently the combinations have not been reade.

- marginatum McOull Occasions on Gladiolus sp. in Winnipeg.
- michiganeous E. r. Sm.th. Superimes injurious on Lyopersonia escatestus, Brandon,

Wintepper Cultioner from affected plants gave reasonable bacteria to yellow colonies - atrifactions Ch. Ellintt. (a. Posalessouss). Cummon on beaves of Areas autou in Man, reported on A future at Durk Links, Santa

Frankiella Almi (Word). Maire & Timo (Phirmelophoni in Word). Common on roots of Abus money in Man. Maire and Timo state (Ann. Myr. 7. 242, 1800). Dat the organism found in the common gains in alider roots should be class field in the Schimopycese, and

Roberg (John): Wite Bob, 70: 479) narrow it Activasespor Alos Pasadarrowan strefactors Mel. √1) New Control on Trition arangement and T. durane in Man, and Saox. Produces usual gigme-rot or wheat bridge, but found by W. A. F. Hardwar was on feature and streng of White, not uncommonly in assertions with P. resi-

Maria var undesser, nerecepalit induted from Hordrins religion.
— composition (Parimers) E. P. Sos III. Illack rot of Crunferse can been reported in Man., but no meetimes have been studied.

- carotas hendrick On leaves of these contents, Brandon. Collected, solated and tolentified by Dr. Hagoorg.

| Chart. Stor. Dr. Inner of January and January Man. and Sask. Stor.

 opennal accione (Ch. Elliott) Stev. Un leaves of Arvise antire in Man and Saak Boot avordoreres seems to be commoner than P coronofactors in Man.
 Dabelouini (E. F. See this Name. Common and naturation on Debugancia con across Man.

and at Indian Head, Sask.

— glystines Corper. On Invest of Glyston max, Univ., Man. Instan Head and Scott, Sask.
— lachrymans, (b. b. Senth & Bryan) Ferratis. Scottimes incurrent on leaves of Corposa.

lachtyrnone (F. F. Smith & Bryan) Ferraria. Sometimes incurrous on leaves of Communication and load Winnipeg.
 Phaseoff F. F. Smith. Often injurious on Phaseographics in Man. and South

— Plai Sackett A inseterns spot on Pinus setteron, 1 nov., is presumed to be enused by P. Pies.
— radiciscals (Beyer, nek., Moore. The legume tuberels organism is, of course, present on native

as well as cultivated Legisminosac

translacems (L. R. Junes, Johnson & Reddy) Blaspy. Widespread on leaves of Hordens
culture, Man, and Sade. Pert cellection in 1920 at 1 n.v., Man.

rulgere in Man and State Prest collection in 1930 at Univ., Man. translucent var Seculls (Reddy, Godkin & Johnson Stapp. On leaves of Secule cerenic, Carman and Univ., Mar., Divast. Johnson Meed and Routhern, Saak

 transluvens var undulosa (L. F. Smith. Leere & Reult. Stapp. Common and nonetroses ngarayas or Tratrons conservou in Man., and as Rasastono, Ruik. sociated core from Hardeon relapen view. W. F. Hagdeing. Rosks chall in aguitum on ereismi varieties of whest, and was particularly common in Mar. in 1928, 1923 and 1933. It has been found or leaves stems and boods. Ber Hardeon (2036) for details.

-- turnefacians (E. F. Smith & Towns,) Stev Crown gall is occasionally found on Prants sp. and Ross so.: Brandon and Univ.

FUMPLETES PHYCOMYCETES

CHYTRIDIALES

Membranosorus Heterantherae Ostenfeld & Peterson. Recorded (Zeit. Bot. 23-13, 1930) as a new genue and species on Heterandera dates, Lake of the Woods, Ontario (near the Man tone boundary) Wornham (Wycologie, 27, 262) points out that this fungus is probably

a Sorodiscus. It has not been seen by the writers. Obsidiantes radicia (do W. d.) Parcher (Accromus reduce do W. d.) For ad by Ventermed (50) in roots of Areas estim, Horden's religence, Secole corcels, and Priticust assistant, and a

serious parasite. Apparent y a norma, physiciant of Saskatchewan sods. Not yet found in Manutcha Bartlett (Trans Best Mye Soc , 3 221, exfls this fungus Olimbian radicicala de Wild. (=O. Bezzii de Wud) Physioderma manulare Wells (Cindechutzum socialise Graff). On Alanna Plantana-manulani

Un v. and Banacyain, propably furth common. Rosting spores 30-40 × 24-33 a Menyanthes de Bary On Menyantees trafolices, at G.mli, and common at Clear Lake

Sports 25-30 p. Synchytrium aegidioides (Peek) Lageris (S. decreums Parl.) Abundant on Amphicarps

manuson. Urr v. to Daughin. Produces small collision mayor and stems, with spores 18-94 a - sureum Schroet. On Persteetereum ensdidum, Brandon.

Uroph.yetia plurianmulata (Beek. & Curt.) Futi Rare on Sanuula manlandea, Winnege, 1918 col. W P France, Bards Hill. 1935, cold. I L. Conners & G. R. Bishy Spores c 40-50 w

- pulposa (Wallr.) Sciencet. On Chempositive generate on arkaline soil, Brandon Man., on C. officer. Astrodyca. Sork. Besting soons in both collections mostly 40-50 a in diameter. scouwent larger than given in Raberboost a kryptogamenflora

ANCYLISTALES Lagena radicionala Vanterpani and Ledingham (55). This new genus and species was described

as a parasits of rootlets of Triticum outinus, T. dorum. Hardeson vulgore, Secole careale, and Zon Mann, Reging and electricity a nouthern Stak. Not yet found in Maintolia, but recorded by Truscott (Myccharia, 25, 203) from a neland, Ont. The life lustory has been worked out expent for the perestination of the restite speces. Lagensdium sp. Gu Spirogyra sp., Suskutoon, Bask Parasites of algae have also been

abserved to Manituba by Professor Lowe out these fung, have not cut been studied

RAPROLEGNIALES Saprolegnia ferax (Groth) Thurst On but placed in water, Univ. Various Saprolegnialis. have been seen but not studied, a Manytola, in Saskatchewan species of Activa and

Aplanes have also been found, but not fully determined. parasitica Coker Identifies by P H Gregory from infected goodfish, Winnipeg. PERONOSPORALES

Album Bits (Bry Been) O. Kimtse. Often nurseus to the weed Assessables esteellerus in Man and Sask, on Monotona Nuticitions, Relivood, Man. Saskatoon and Scott, Sask. (The generic name Cyclopus should prehaps be used instead of Albugo)

candida (Pers. ex. Lév.) O. Kuntzu. On Bensuca arrevers. B. rences. Cancella Burea-padoria, Legislam distribute II. desprisorum) Superibrania alturnature in holls Seek and Man, on Arabis oldere Cassione surrection Audie paramileo. Reducula calcutra. Ratherous estima-Reproductive training in Man., on Statembrane Santon and Transcribes surem in Santo. A widesproad and common fungue. Tograde and Shibanak, Jahet, in Rev. Appl. Mye. 14-1) report morphologic and biologic forms of this fungus in Japan

- Portulacae (DC) O. Kuntzt. On Partulaca efences southern Man and westward to Saskutoen Sask

- Teamment (Porc) S. F. Gray. Do Artempte burner and Continuo community Man and Sask , on Ambrona pulotachya in Man , on Circum sp., Isa azillaris, Trapopagen dabius, T pertifolsus, and ?Dimorphotheca ap. se Sask , widely distributed.

Basidiophera Kellermanti (Ell. & Halst.) G. W. Wilson. Common on his annihifolis in Man-

- Bremia Lactucae Regel On Lecture polehello, Swan River Man., Annahem and Lahr Wiskeria, Bash.; on L. ashwa, Indian Head, Soik Perspensioners nastivalis Not ye Caum. Not uncommon on Methyan action process, v. a. dams.
- Permenspore seathwrite Syd ex Gaum Not unconstron on Medwage sotion, respectacy on damp seasons, Univ and Peandon, Man Indian Head Sask Causes some injury to adults, and has not been found to us seeing adhesigh it has been known in Mandolou since 1821 after freight on Phinospore solor Minkale, here River Battle Freight Randon and fary Common
- nn 1928, but found abe in 1926 and 1935.

 Artumitatus bisannis Glaim On Arlemiess bisanis, Scott. Seak. Known abo in Mirmesota and North Dakota.
- Archard Fare On Ornottern became K. Iarney and Aurten Man., during the damp summer of 1928, also at Saskatoon. Sask., va O. evigoso, Grand Coulee, Sask., 1928.
 Astragali Fod. On Astropolis consideratis, Aurinia, 1928.
 bereafte Guttern. On Golden Month. On Lake, Man. Indian Head. Sask. The heat may be seen the Court.
 - be considerably distorted. Gainsan reports it from Ontario and Waronio Brandone Chain. On Science account. Lev. Man. on B., ancier, Un.v. and Valley River,
 - Man Gray and Sarkatoon, Saak
 Carnelinas Gaum On Counting recrossrps, Brandon coll. W. P. Fraser. An previous
- North American reduced has been seen

 Carrydalis de Bary On Carpytans glauco (C armyernress), Kenora, Herris Haver Norway

 House Balter extraction in real forests of coatern Manufacha, on C union Daughan
- Echanosperrut Sn rage: On Lappala rehieran Naskatoon and Natherland Nask Gaumann records this fungua from Korea, Russis and Kanasa only
 Erystimi Gaum. On Erystican circumbools, in Man tone and at Naskatoon Nask
 Gai Ned ra. Gaum. On Erystican stretch Remark Rever, Char Lake, only, reflection, Grandel
- Probability this species allosing neither of these species of Geom is recovered by Chamanon. The Clear Laxe specimen bore rounds 16-19 × 15-18 a, which is should the usual rise for this species.

 grisse Lagre. On Lecture program, Herris River, 1023. Calumain was not ordisch as
- grisss I ngre On 1 resumt progress, Revent River, 1923. Columnes was not certain a
 to the disposition of the Percooppers on this host.
 January Mars. One education on serves of Rivers Rivers Resources. Values Birer, 1924.
- Lapidil-sativi Caum. Prevent in 1925 on Legisland astrona ("broad-leaved erest" and "curied cross," cult.); Univ., also found at Baskatoon. Bask.
- Lephdissippinici (saum: On Lephnium apendum, Brandon, Man , eventous at Saskatoon Saak
 Sask
 Bask
 Bask
- Kansas and Culorado en this host
 pareautics (Pers) Fr Widerly distributed in Man, and Sark on Coperlia Nurva-posteria. A
 collection on Nurvariance alternation is reduced here, more Gaumann does not record that
- hoet, Saskatoon, Sask. Patentillas de Bary On Potentillo monopolismo, Wakaw and Lake Washessu, Sask
- Schachtli Fuckel. On Bria ruigaria var. cicia (Swass chard), Sutherhand, Saak.

 Schleiderdama W. G. Smith. On Aldioni Cop., Indon Hend, Saak. 1927. This is the only record of drawn military of gonom in the Practic Proposes.
- Sophias-pinnatas Gaum On Sizymbrium incisum, Bereri River, Brandon.
 Spinastas Laux Sometimes injurious to Spinosso dernoro, Univ., market gardens around
- Winx prg and Brandon, Man., also common in Saak.

 Italiurea (Sags. On Artemana sp., hyllarney, J. F. Machacek, 1935. The condia measured about 30.5 & 18-20 and the Junus secure to 64 P. saliurea, which is known.
- measured about 30–36 × 18–30 μ , and the fungue seems to fit P -sulfarea, which is know from North Dakota. variabilis Gaute: Common and widespread on Chemopolium allows to Man and Saak.
- Vicine-nativen tidom. On Vers ornervous var onguetyrins (V spersylvin), Dana, Prud'-bomme and Saskatons, Sask Tuffavolet, spers 26-30 × 17-20 µ. Recorded on this host (as V insecres) by Glemann from North Dakota and Kansan. It seems doubtful that this is really distinct from P seriosepsia.
- Phytophthora infestana (Mont.) de Bary. On Solenson Inferences in Man. No speciment of the late-blight of potato were seen in Man. by the writers until 1977, when affected tubers were sent in from Otterburne, Monan and Portage in Praisie. The succeeding year, 1923.

- was damp, and considerable damage to potato vises necessred at the Univ., around Wissippe, and in much adjacent territory. Tuber-rot was not reroos in 1926. The lungue has not been found arise.
- been found arise.

 Phytophythog parasition Dustur. On Gilin Inversit, Rinton. W. L. Gordon, 1928. One collection on v. and there is some uncertainty about the name. But the functua seems to fit the subsequent of computer, and common (2 or 124) is nothing for the third. Persons. B. the subsequent of computers and Common (2 or 124) is nothing for the third. Persons.
- spore Gibne Ed. & Ev. may belong to Phytopathorn perceition.
 Thalleart G. W. Mahen & J. J. Davis. On Philotrum discreme, Univ., 1928, on T. Ténap-corpose, Clear Lake, 1935.
- Pénarmopara Geransi Pechi Herl & de You. On fer ansisse sonestatum. Bereun River, 1923.
 Halietaelli i Harl Berl & de Tom. On desbross pudiosire per Batene frontesses. Belastikhat ansissa. Il materiosiatore II periodicina and the Medicine la territoria, i envirente to Bandonia and Dauphin, Man. on Helsen/Mustoriosia and H. nubelonoloideus in Badic. Rather common in damp neurons, sometimen supriora to H. ansissa.
- enducence Peterort. On Impatures Inflows, Small Rever and Berens River.
 praymens (I ng.) Behrost. On Amount other(new found once in writing Man., common in
- Sask -- etbicola Schroet. On Ribre orynomitenies, Minaki, Univ
- Viburni Pres: On 1 Marriage Opinion, Law Goods: Found only to 1927 and 1928.
- viticela (Herk. & Curt.) Bert. & de Tont. On outstand little ap., Cniv. and Montes in 1927, ensuing considerable inputy to the less grape types present. No defin to record of a previous
- occurrence, nor has the milden have found since 1927, although 1928 was a favorable year for downly mildens, residently the fungus was a first during the writter. It has not been found on the native V sulpriss.

 Procedurate recommenders. Hurmalia (Myster & Tahah.) G. W. Wilson. On Humales I species in the
- woods, Couverty and Minake, Rept. 1928. No further collection of this interesting fungue has been made as Manitoha, perhaps became of drive could ison in recent years. Osspores are present in both collections.

 Puthlism arrhenomanose Develoter var. canadonism Vanterprol and Trisport (56, 76). Type
- of the report is matched from Fritzen anothers showing there may not set in Stabilizations. In 1929. Also particular on extra 4 to the seasy. Herdinan subject Voide revolute And Mary Brownings not set has some here found an waters. Manchook, but the Psythians promise has not been soliced. This spread is subject formed in false, and has less solicited from the spread of the seasy of the solicited from the spread of the seasy of the solicited from the spread of the seasy of the solicited from the spread of the seasy of the solicited from the seasy of the seasy
- de Baryanum Hese: Numetimes present as a cause of damping off of predings in Paskatchevain and Manitoba, including Linux incontantion in Italia (Vanterpool 53).
- do Beryanism vsr Pelargunii II Brain Isolated from domaed Polorgonium conde in a greenbouse, Winnipeg, det T. (Vanterpool (Can. Plant Insense Survey Report for 1931-93)
- utilization Trine. In band stem rot of euti-age of Polargonium conde si a greenbouse at Bankstron, Mash. Cf. (Varietpool, on: Plant Disease Survey Report for 1924-84) and, July Vatterprod, more remained than P. de Bargonium as a cause of diseasing off of seedlings in "Stat" in Man. and Bank.
- whitever haderpook & Transitt (56:77). Type enlarge from rotted roots of Problems actives. Trialled Roda (1972) Along pathagenes to the roots of from anywei, Herdenn patigors, Neuto crowde, and Zee Ways. Net found to be so widely distributed in Nish an Paint-Innovative via resources to Nix 14 (online) Michaelle. Link (Michaelle. Phytipath Lais, William Common Nebulen, Baarm, 15:1-22, 1934) found this species paramiting print in Michael. Naterprof (presented commonwation) flower? Ferdams to be against or the Control New York (New York).
- Scheruspura graminicode (Succ.) Schroet On Schrist virtis, Posserian, Man , common at Brandon, Man, p. 1928, towed at Indian Heud and Oxbow Saski, and on S. sinifes at Indian Head, Sask

MUCORALES

- 32
- Abaidia glauca Harem. Two polations from each both of the + race. - probable . Vuill.) Harrey leolated turnty times from Manutoba sos. from the surface to the C horizon: especially from forest soil.
- aptnous Londwer Obtained 35 times from said, especially in the A hunger of grass land, once from butter
- Cheetocledium Brafeldsi van Tiegh, & Le Mon. Or sulture of home dung probably parasitic on Magor Mucado, Univ. Spores about 4 a
- Comminghamella elegane Lendrer Four solations from surface soil in Man , on wheat plants St Percus, Sask. Species of Cunninghamel'a are sometimes used to test the phosphonos content of soci
- verturillata Paint: One solation from butter. Very socials to the preceding. Conidia
- oval, 10-14 a seng, some Endergne mallents Hark hances (Mycabaris 28, 60) places this in Modeccia. On the ground and on decaying searce in the woods. Univ., June -July. Sporangia 60-84 × 62-60 a., apores 12 20 a. Determined by Dr. Leva B. Walter, who has studied the develop
 - ment of this species (Mycologia, 15 245). Martinealla elesson Buters & Paylon Seventy-one melations from are in Man - particularly from the lower banzans of meadow and, from moto of Tribicum nesturus in Saak. Spores
 - 2 5-4 × 3-6 u - Inballing Outen, var runsifies Door Stowart. Forty isolations from soil and post, usually in the upper horizons. Speces 2-2 5 µ
- vinaces Diron-Stewart. Sixty enlations from soil especially forest soil and pest, usually in the upper herizons. Spores 2-3 ii. Described in Australia, then found in Man. and recently (Flore 130 908) in Garmany
 - Mucor ?abundares Povah. Four sociations from soil circinellacies van Trigh. Two isolations, apparently this species, from butter
 - dispersus Hogem Occasional a soil Spores up to 15 × 12 a.
- blemalis Wehmer Rather common in forest soi - Mucedo (L. n.v.) Bref. A common experophileus fungus, often covering the substratum in a
- few days. - recommond From Also a common coprophilous fungue, and rather irrequest in soil, especi-
- sity from wheat fields. Chamydespores are abundant in the exhausted myrelium, spores un to 10 × 8 µ
- eninespens (codes). From those and to ik perceler to a bakery when was having trouble with muids, Wissippeg. The columellar hear projections.
- Taylvatious Hagem. One secution from soil. Spores of two suces. - Tvarians Povals. Obtained from soil
- Physicanyens Riskusiasanus Barrell (P. 1921). Auct.) Race on dung cultures. Univ. Pilaira anomala (Los) Sebrard. Thus Lingua has never seen found to Manutcha on dung of
- home or cone has a marning of approximation button every finance optamed on mobile during policected near Beausepour on Sept. 29, 1935 and purees in a damp chamber. Sporaiginphores reces noted arrang after two days next day thry and a relies swelling at the next but were not mature unto the fourth duy. The energy were most v 8-10 × 4.5 at a little parrow for
 - P anosysia, but otherwise the fungus was as described by Grove (82 Yol V. 217, Moreaul Ling. Along with the preceding species there developed a Poura with spores
- 14-20 × 40-12 a. Thus weren't to be the first American record of P. Morecou. Pilebelus crystallique Tody. A though earlier records of this species from Maintolia are doubtful, an abundant development appeared on from deer dung collectes on Sept. 29, 1935 near Pleasureness and rusped n a dance chamber. A few specimens amounted after four days, many after five days, and for a week or gone thereafter. The trophocyst was shurt, za was the sporangrobors. The spores were 6-8 X 4 at the discharged appraign. an glass from 150-300 s in diameter. These soul dimensions algrest P various, but that
 - is a rather uncertain species. Principles is discussed and illustrated in detail by Rolles and Grove in Researches on Fung., vol. VI.
 - Kleinti van Tiegh Common, particularly on horse dung, in Mar toba (See 93.) - longines van Tierh Also common on horse dung in Man

Pilobolus codipus Mont On remans of signe on mud boude the Red River, Winnipeg; C. W. Lowe. One collection only

22

 umbonatus Buller On horse-dung, Winnipeg. This interesting new species is described by Buller (82, vol VI). Spores 5-6 × 3-3 8 μ, sporangium distinctly umbonate.

Piptocephells Fresentane de Bazy Occasionally found parasitioning Musorales, Univ., W. anapog.

Rhisepus elegans Eidam. Rather common in Manitoba soil. Spores 5-8 g.

remreput engene a Limina. Radiero common in administration from a process of a particular and vegetable, farily common or the soil, sometimes is alkated from serical roots. Zygospores occasionally obtained in Man. and Seale. Proteptament stransing, etc. discovered and Clustersled.

by Buller (82, vol. V).

— nedosus Nature. One solution from buttor. Seculiars occur in the appraintipheres:

spores 5-9 × 4-6 µ, strate. Probably the same as R archive Fisch.

- Fritzopodiformus (Oshn) Zopf (R Concus Berl & de Tonn). Balated from the lung of a chalen, together with Asperghiles fungation or Plates incolated at 37° C. Spores 4-8 (10) × 3-6 µ, shazonis present. A lungua, apparedly the species, was adulated by Willard.

Special from grasshoppers.
Specialize grands Link Collected on Clareria pisiliaris, Parillius invalutas, Hypropherus passerias and species of Eritorius, Londaus, Russuta and Lactarius, throughout Manijobs;

on Bostus in Scalestificwan.

Syncephalastrum recemeaum Coim. Twifve assistions from sell-from a wheat field, Univ.

Syncephalis cordata was Tingh. & Lo Mon. Fellowing Mutonilet on rabbit doing collected,
men Brausspour and collared three to four weeze in a damp chamber. Basal cell V-dasped,

giving rise to two columns of spores, spores $6.8 \times 3-i\mu$ rather small for S couldes, but otherwise the funges fits that species.

— nodes was Tirch. Parasitic on Polochus, Univ. Described and Shatrated by Baller.

— notions van Lirgh Parastic of Pilototia, Univ. Described and interested by Bracer (82, vol. VI).

Thermodulum elegans Link. An occasional coprophilous fungus, Univ. Lateral branches of

sperangiophien d_cintetensusly branched.

Fresznit (van Togh & Mon) Schrott. On an old wassy's zest, Univ. Lateral branches of condisphere vertical fately branched spores 8-19 × 4-6 μ.

Zygerhynnikus heateragamas Vall. Euro. I Manicho an Jamacho and

Meelleri Auct Amer, non Vull. Isolated unce from forest soil. Zygospares 30-55 μ, spares from sporangia 4-6 × 2-3 μ

from sperangia 4-6 × 2-3 µ

--- Varillemanii Nassyul Cocasional se soil

ENTOMOPHTHORALES

Empusa americana Thant. Found twice on dead flore in the woods, Un.v. Conduc 21-28 × 13-15 a. recting spores 35-54 a.

- Anhidia Hoffm Rarely found on Antonishae, Lony

— Griff (1981) Books. Plays a part in diseasting grandsqueet broughest the Primer Primers of Pa of Dischogazing and many of the Robinsqueet Landsqueet at Primers of Part of Participation of Participation of Participation of Participation of Participation States (Participation States of Participation States of Part

- Muscone (Fr.) Culm Can be found each sustains on Musco devector in Man. and Sask.

virescens Thu. On dout entwome, which had clambed up bette before dving. Univ.

 virescens That On dead cutscome, which had slunded up beths before dying, Univ Tartchium megaspermum Coho. Also on cutscome, and possibly only a stage of the preceding. Play

ASCOMYCETES

PLECTASCALES

Arachniotus citeirus Masses & Saim. On dung of rabbit, Dana, Saak, det. R. F. Cain.

Euretium herbarierum (Wigg.) Link. the perfect stage of Aspergillus kribensesus of the A
giouses group. The perithesis are commonly found on traperfectly deted herbarums speci
giouses group. The perithesis are commonly found on traperfectly deted herbarums speci-

mens, stale bread and other organies instead in Main and Saule.

7 publisherrimuum. Wird. On bird dreppings, Roser, 1 nov. Perithena 100-200 μ, with
membranous wall, acce man's apherica. 12-16 μ, Septemb, προπει c. 5-6 × 4 μ. Thom

etates that E paleberrissum is to be excluded from the Eurotains stage of Aspergillas.
7Cymnasaeus Reseasis Estain On dang old seep's cest, and n soot, Univ Peritheria orange, scores 3-4 ≥ 4-4. Thus is combany on Arischinotius.

sopres 3-0 × 2-0 µ. This is protonly an Aristonicitie.

Monageus purpursus Went. On adage made from Zeo Moge, Brandon, Univ. A bright rose color is produced. The fungus was isolated by N. James and studied in culture. No cases

of posoning of a vestock by moldy over stage have come to the writer's attentive but see Sopoiatrappes bruscaula.

Onygene corrina A.h. & Solw On feathers, M raks, Univ. Powsh (13) states that apparently the first pulsaherd vecord of the funges in North America occurs in The Purps of Manadala.

the first published record of this funges in North America occurs in The Prings of Manistoli He found it at Like Royale, Mich.

- equina (W. Id., Pers. Occasionally found on old horse of animals in Man.

storage, and in at me flor in wounds on trees. This have not been studied.

This lare not been studied in the floridation of Trislation against terricole (Gi man & Abbetty Emmons Includes from upper stem of Trislation against a terricole (Gi man & Abbetty Emmons Includes from upper stem of Trislation against the Risest Inhonatory by W. A. F. Baginery. The ages are evanement, and the mentherous soon become filled with "loose" insceasors mousty 12-4 x x 7 8 at Gen Buil Torrey.

Bet Club. 57 134).

EXOASCALES
Taphrina Almi-Incanae (Kühn) Magr. Causes distortion of female cathins of Abus facour,
Vistoria Beath. The infection was too old for determination of microscopic characters. Our

Vectoris Beath. The intertion was too old for determination of nursescopic characters, the lungus may be T. Robinsonanda Gorbenh. If that be a distinct species.

— eastwheeems (Mont & Deem.) Till. Rather common on serves of Quereus mecrocitys in

-- deformans (Berk.) Tul. This species is perhaps the cause of deformation of trues and beaves of Prinois Resear (cult.). Morden, and P. Beisegs X.P. triffers. Univ. Institutes (Stafebeck.) Johann. Chairman "Red Cour." of brarefres of Princip persistence.

Victoria Beach, Man Battleford Saak.

Struthlopteridis Nishofa. Causes brown discolerations on leaves of Pieritis modulon, Clear

HELVELLALES

Cudenia circinans (Pers.) Fr. In store under conifers, Victoria Beach and Missaka abundant

Cudents circinane (term) P* In sizes souther, victoria seepen and Missaka southers at Clear Take Sporm 40-50 X 5-40. The seepen are Missaka southers at Clear Take Sporm 40-50 X 5-40. See specimen in and young of Principles and the Seepen Sporm of the Seepen See

masters Man. Frist body barek, 40 mm high, smooth, rather elastic, stalk 2 mm wide, spores 3-6-8 x -9 z. n. st. er ensesterable). S-colled when mature

Gyrornttra saculents (Pen,) by - victions Beach and falce of the Woods; late May - Sometimes shoulded. No enses of nearrons from estate the faretak known, an Man., but Dr.

times abundarit. No cases of postoning from resting this fungual known in Man, but Dr. Dearnem reports two fata, takes in Ostano. Scaver regards this fungu as only a gyrose form of Hebsillo stylide.

Helestia crising (Scon.) Pr. Rather common in autum, Univ. and Lake Winting equations.

in Man, Prince Albert National Park, Saak. Spores 18-20 × 12 a.

— efactica Bull. In woods, Clear Lake, Victoria Beach, Krison, Aug. Seat. 18-20 × 11-18 a.

 Infula Beharff. On the ground or on rotten wood, Clear Lake, Victoria Beach. Minaki, it has been found only in Aug. and Sept., whereas Gromotre secularite has been found only in surview. 20-22 x 8-10 a. Halveille mitra L (H Jaconos Afe.) Rather common in woods across southern Man; July-Bopt, 15-20 × 10-12 p.
— spharospows Peck. This species, not commonly found viswiners, has been seen several times at a 1-near Victoria Beach, o site June, or old wood. Early identified by its

apheneal spores, about 10 µ m diameter

Leota lubrica (Scot.) Pers. In confernus woods, Kenora, Sept.-Oct.

— lubrium form Lloydsi (Rehm) Durand. The green form has been collected at Manaki, Sept.

Mitrula erregularis (Petk) Durand. Rather common, Clear Lake, Victoria Beech continued,

Auc-Sent. 6-8 × 4 a.

Aug.-Stept 6-8 × 4 µ.

Morerhella angusticapa Peck Univ to Lake Winnipeg, Apri. 14 (earliest collection) to the end of May Piesa seute at sper, rather small, puts dark at marges, sperse up to 28 µ long — consea Peri. In woods of Populos, etc. in Man and State Perinape cely a form of M

esculents. See Buller (82, vol. VI. 3.4)

— crassipse (Vertreas) Pers. Univ. north and eastward, June. Spores c. 17. 20 × 11. 12 µ.

— the control of the co

- esculents (L.) Pers. Across southern Man , in woods in early June.

Spathularia slavata (Schseff) Succ. In bogs and low woods in conferous areas, Norway Hease and sasters Man., Aug., Sept. 50-50 × 2-4 p. Trishoglosum tatrasperum Sindeo & Frispatrek. In the edge of a hog, Rabbut Lake,

renorgament intringerium missen at rengativel. In the edge of a log, Rabbit Lake, Kerons, Bept 26, 1002, coll. M. Timoniers. Plants linke, seitess, fertile pertion stort, ass 4-spired, spores 11 s− 41 ≥ 4 ≥ n, d-celled. Described from a cellection in New York Underwooding columnaria Press. The a interesting and striking faings, was recorded (Plung

of Man. p. 101 from three rot column made in 1927 and 1928. "July and Aug. Lit. Berrens specimens were found on July 10-11. 1002 in the same decidious wood, Univ., reaching a new of 9 × 2 meles. The teste is mild. This species has been studied by Miss Nueslé (Mycologia, 28 200).

Varyas beshevules: (Secoush) Setsies! Common in decidings woods at Univ. Inst. half. May. 1937, 1932, Senant to its exemilient when ownest, also at Visteria Basado, Estimation, A., Badastoon Rode. Acris with two uprace cach 60 µ or more long. See Holler (60, vol. VI. 324). emoirs: 6 Minil 3 Nozaria. Cocasional in this flat., 1957. Visteria Basado and master. Mar.

PEZIZALES

EZIZALES 1. Operculator

Absurbs aurantia (Per.) Fucket. On the ground, $\lim v_n \text{ Ingelf, Minski, Aug.-Oct.}$ An orange our-fungus with rough spores 20–24 \times 10 $_{\odot}$ Malartina aurorimona (tooks) Scaver. Plant, Victoria Beach, July

Accelerates an experience of the party of th

geophilus Sexver On damp soil, Univ., July 20-25 × 11-14 μ.
 glabar Pern. On horse dung, t sav., April. Apethetis | | 1 mm wide, sparse varied in size in different apothesis. IT-26 × 9-13 μ.

in cuercent apolitical. I7-99 × 9-18µ - immeruse Pers. ℓ air and Hamiota. A common coprophilose fungus with large purple sporas 53-65 × 39-35 µ, somet raws found attached to herbage in the field.

— stercararius (Bull.) Schroet. Also a commen coprophiluse fungus throughout Manutobs.

Spores mostly 20-28 × 0-14 p. See Buller (82, vol. VI). and Mass Dowding (120).

attriapperus (EE & Dearnoet) Seaver. Type collected at London. Opt; farry common at the
Univ. of Man. in a smpl. slough as it drive up in sporing or summers, on samp seaves of various

kinda. Spores striate, puryle, 15-29 × 0-10 µ.

viridutana Phill & Plow On rabbot pellete, Un.v. Apotheox distinctly grean whos young or mature, 1 tom or less wide, exterior coarsely furfuraceous, spores 12-14 × 7-8 µ, with distinct longitude nat indises. Seavey records it, only from New York and Europe.

Ascophanus argentus (curry) Boad On cow dusg, Univ , Birds Hell Apothesis silverywhite, very small, sporce 10-12 × 6-7 µ.

———, rezy sussay, sporces to - at X № гд.
— святных (Pors.) Возд. А common coproph.lous fungus in Man. Spores 17-28 × 10-18 µ,
apothesis pale Sesh-color to reddish.

 gallinaceus (Prck) Seaver On partndge droppings, Bereis River, Univ Apothecia to 2 mm. wide, somewhat stalked, pale yellow-pinkub, mora brownish at margin, hymemum 6mm-2a concolerous, asci mostly 120 \times 18 μ , but widening to 18 μ before spore discharge, spores 8-12 \times 5-8 μ . A similar small yellowish Ascophanus has been collected on horse dung, with the asci mostly 4-spored

Ascopharus glaucellus Rithm On rabbit dung, Lniv. Apothema about 1 mm, milkywhite, asci r (0 × 13 p. parophywe 2 p at apex sporce custry 8 × 5 p. — eranulatus (full) Spors. Not unconven on dung of home unit one m Man. Sporse 17-19.

× 0-10 μ, sometimes shorter

— incrans (Conke & Phill) Sace Occasional coold dung Univ Sports 8-13 × 5-8 μ

— obtraceus (Cronan) Bond On dung of deer and home, Benusspor, Berens Bryer, Cleac

Lake Apothera yellowish or brownsh, about I mm unde, spores 5-21 × 8-10 µ

Bulgaria malastoma (Sourchy) Scaver Three collections on old wood, Victoria Beach, July-Ag.

July-Aug

Discins smalls Pers.) Saco On mossy wood, Victoria Beach Lac d., Bonnet, June Sperce appropriate, 37 33 × 11 14 µ.

Durandiomycas Phillipsis (Massee) Seaver This "elabbage-head fungus" was found growing from rotted wood in an old masshroom cellar near the Univ., Oct. 1934. Pileus contoxted, white with a trace of prosale-villow when feeth. Intitle, somes rough 10, 12. S. G. B.

white with a trace of parasity-yillow when fresh, brittle, spores rough 10.12 \times 5-6 μ Coopysis bronca (Petch Sarwer On much decayed wood, Vistens Hearth, July Yellow apotthera, spores 15-20 \times 12 μ , det. F J Senver Recorded previously only from New York and Europe.

Total min sortings:

Cupularis (L.) Sace On charcosa heaps in conferens woods, Kenora, common at Clear Lake

Humarina aggregate (Brik & Broom) Seaver Under Piters, Vivian, May, det F. J. Seaver

Appthesis ornaus. neuro 19-20 v. 6-10 u.

Apothocas orange, spores 19-20 × 9-10 μ.

- araneosas (Bull.) Seaver — On hunt mindy red, Krewatin, June — Spores 12-16 × 8-9 μ.

- buccolomas (Heder) Scaver — Amongst mosses, Clear Lake, Minaks, Aug-Sept. 20-22 ×

12-15 g - erepi-immersas (harst.) Scaver On damp soil in ravines, Univ , July-Aug , det Y J Seaver Ouer sale tats. 3-7 mm. webs, secres 14-16 × 10 u.

testaces (Moug.) Seaver. On old roots and stems of Medicago, Univ. Spores 15-19 × 10-11 µ.

-- trackyderma. (5) d. Fv.) Souver. On designed Equilita, Lev., May, det. F. J. Souver. Cup v. innecount-news., paraphysis, 8-10, pt. or det. 41(n), speries 20-24 V. 10-12., Lamprappers. Constribute, User's. & Brocord Souver. These bright red spothers are fault common on damp and in words. Visitors Bench. 1, nv. June Aug. Souver 12-18 un diameter.

Heetirubea (Cooke) Lagardo. On sandy oxil, Vittoria Bench. Sporce 12-15 μ. • Máconnáricemia Seaver. On burnt mose in a long neur. Rennie, Aug. Apollocia orange on drying. πρores small, 1-8 μ.

orying, spores samai, i-n ju.
Latelobelus equinus (Mirel.) Kurst. Occasional on dung of horsy, deer, ste , Clear Lake,
Dniv 20-24 x 12-13 u.
Malastias Charteri, W. G. Smith) Boud (M. ssuares Boud.). Common on nordint in an

Melastica Charteri, W. G. Smith) Boud (M. seuse's Boud). Common on conduct in an emploid scholuse in suitum, 1 or w. Emplot red cope with bases on externor, spores up to 22 × 11 p. Sec Buller (82, vol. VI).

Patella shumdon: hard) Seaver. On bumb places m m zed woods, Cirar Lake, Sept. Gups.

whitish with pale brown pointed intere, species c 16 × 8 µ albida (Schaeff) Seaver (Lachue Areupterson (Wrber) Gall, Commen on the ground and old wood. Unit to Berens Rown and eastward, July-Sent

old wood, Univ to Berne River and east-ward, July-Sept.

— albocineta (Berk & Curt.) Seaver. Amongst room, krinora. Spores rough, ε. 24 × 13 μ.

— albocrpadiose (Grev.) Seaver. On fallen reaves of decisions trees, Univ., Sept. Apotheoa.

and another the collection of the state of the collection of the c

Apotheren pench-yellow, coyloted with long haurs, sporess 14-.9 × 7-10 µ. femsetarie Searce On cow dung vi woods, Brind Holl, July 6, 1935, I. L. Coupers and G. R. Brity. Apotheren redshib with horse up to 1 mm long, ferked at base; paraphyses to 8 µ. wade at anex, searces 18-22 × 10 12 µ. distinctive words. Protective Previously visions of the processing processing processing processing the processing proces

- Patella setosa (News) Seaver: On decayed wood of Populus, Un.v., July, det. F. J. Seaver.
 scutellata (L.) Mary (Lacknes soutdies (L.) Gill.) Common on old wood and daking across Man, to Vorway House, and to Saskston and Lake Waskesu, State. See Buller (St., vol. VI).
- across years, so variety process, and so consistent and reascents, asset. See miner (62, vol. VI).

 **servorea (Pers) Weber Common on cow dung seroes Man, rarely seen on home dung, found on monor dung at Clear Lake with smaller scores, 14 17 × 7 10 \u03c4.
- tiseleboloudes (A7b. & Schw.) Seaver Common in an acc-house after being emptred on sawdust and debres. Curv. Apotheris proton; sporce 14 17 × 8-9 μ up to 23 × 10 μ m one collection. See Builte (62 vol. VI, as Checkprenn smoore).
- Pauma acetabulum (I...) O. Kuntze. Occasiona or ground in frundese woods, Univ.; July 16-20 × 12-14 µ.
- 10-30 × 12-14 μ. corium (Webth.) Seave: On the ground, Victoria Beach, Man ; Saskatoen, Sask. Cups blacksish, spores 15-19 × 9-11 μ.
- blackiels, spores 15-19 × 9-11 μ.

 hispida (Schaeff) Scaver On the ground or on rotted wood of Betula, ηξο ; Victoria Beach,

 Bertra River, July-Aug. 29-25 × 19-13 μ.
- macropus (Clemento) Server in frontose woods, Umv., June. Stem to 5 × 1 cm., Incurses, apotheca to 6 cm. wide, aprecs c 20 × 13 μ.
- Taubelavipes (Phol. & Ed.) Seaver In dtep maxed woods, Victoria Beach, Aug. Stem 1 cm. long, cup trasks, sporter .8-42 × 10-42 μ.
- tong, cup smax, sporter 3-22 × 10-12µ = solicata (Pers.) Kunter. Occasional on the ground in weeds, Birda Hill, Univ., Victoria. Beach June-Jun. 10-20 × 1-1-16 µ
- Perrotis flammes (Alb & Schw.) Bond. (Lochnells flammes Fr.). On old wood, Victoria Branh, June. Apotheria lemos vellow anade, clothed with brick-red harm outside, sec. c. 100 × 10-12s, nearphyses follows, percent 36-26 × 31-4s, becoming applied.
- Pezita hadia Pers. Common in woods, Univ. to Victoria Beach and eastward. June-Sept. 16-20 × 8-10 μ. See Buller (82, vol. VI. 304,
- domiciliana Cooke. In a cellar, Viniv. 15-18 × 9-10 μ.

 firmanti (Pickell Staver: On old cone sing, Univ.; June. Apothecia about 1 cm. wide,
- spores 12-4 × 6-7 µ

 pustulata (Heijs) Pers On burned areas, Victoria Boach, Winn,peg; Aug.-Sept. Spores
- variable, rough, 12-18 × 6-10 µ
 rependa Pers Common on rotted legs, sawdust, etc : Unev , Vistores Beach castward.
- Spores mostly 14: 16 × 8-10 µ, sometimes longer

 spirestris (Bond) Sace & Troit. Univ. Victoris Brech, west to Clear Lake. Man., and
 Lake Wascens, Sask.
- vesciculosa Bull. Common en dung, muchinous beds, or rich soil, Kenera to Norway House and Univ., Jone-Aug. Discussed and illustrated by Bullet (82, vol. 1, referred to as P repress, also vol. VI).
- violacea Peru On charceas, etc., Clear Lake, Univ ; June-Sept.
- Plectania cuccinea (Sosp.) Fueled: The only recent of the Bearled-cup, a a spectrum sent from near Neder, North Dakeda, on Mur. 27, 1927. Since it apparently was collected only about a half-rule from the Mandobs houndary, it may reach southers Man. 28-38 × 10-14 µ. Manufact. No. 6, Burnet. Secure (Society Secures International Coll. Sec.).
- hierankis (Nees & Berrost) Seaver (Sarcoscyptic protructu (Fr.) Sate.) Not uncommon, in decidous or mixed woods across southern Maritabus, late. April to early June. Discussed and Joutensett by Suizer (82, vol VI). Spores 40–40 × .6–22 μ
 Passidosplectania (unlesses (Pers.) Poole). Rather common on more and rotted wood in conjunction.
- ferous woods, Vietoria Beach, late May or early June. Apothecia reddish peach-color, up to 4 cm. sude, sporce apherical, 6-9 μ
- nigrella (Pers.) Fuckel. One collection on old money wood, Victoria Beach, late May Cups blackeds outside, bay-brown made. 8-17 mm. vade, aperes 10-12 µ.
- vogesiaca (Pern.) Seaver Three collections on dobayes wood, Veteria Beach, May or early June. Cape backets, to 25 mm wade, stipstate, spoces 10-.2 µ. It is noteworthy that all known North American species of Perudoplectania may be collected at Vetera Beach in May. Other conference areas have not been visited so easily.
- Pathoperta nummularia Berk. On wet Iraver, Univ Apothecia brown, adhering to substratum, source smooth, 20-22 × 11-12 a.

- Personana cantes Dearmes & Bulty (7) 50). On duny of dury Neway House, 1928. No. more of this lungue has been found, and nothing can be added to the previous report. Spores 11 124 × 6-7 µ
- semphalodes (Bur.) Fuckel (P. confluent (Pers.) Tul.). Common, a damp weather on chareeal beds and burned son, rather troublesome in greenhouses on outs of steril and soil. Man and Sask. Discussed and clustrated by Buller (82, vols. V. VI)
- Rhizina seffata (Schaeff) harst. Rare, under Pinus in autumn, Victoria Scach, henora. See Bolley (82, vol. VI. 340).
- Rhyparobius grustaceus (buckel) Rehm Occasional on rabbit dung in dazi p chambers, Low Age 19th Life x 22 Stra. record 8-10 x 5 ft u. Many secret automorphic about 1955 in an areus, but otherw so the function survey with R crusticities, which is reconired as having
- shout 64 spores per ascus. Cloby about a half-dozen aser un each munule and become - memerica Mouton On dung of goas and rabout, I nov Apothecium about 150 µ wide, pale between glabrous, one ascus prosent r 120 x 50 µ containing wore than a hundred
- spores, spores 5-6 × 3-4 s. Prehaps a better name is Thibridge monorus (Mouton) Bood - Poolyanorus (Naret., Sacr. On old dung in damo chamber, Univ. Aunthorus 70-50 a wide.
- yellow-hyaline, with 3 to 6 arc; sac; rather smail, about 36 × 18 a source subscherocal, about 3 µ in diameter, many in each arcus. Probably near R potyspecus but all vises rather sman
- -- assisted response (Crouse) Phill. On dung of rabbit, Prud'honome, Suck., set. R. F. Cam. Saccebelus depaugeratus (Neck & Broome 19: II. On dong of home and deet. Borons Brown Clear Lake, I n.v. The discharged purple spores are 12-14 × 6 µ, and cling together in a mass 30-35 × 10-12 µ
- globulsterellus Neaver On rubint dung, Prod homine, Saar , det R. F. Cain, Seaver (14) records A only from New York City
- Scadalina avandia (Pers. Scaver. On damp son in mored words, Autoria Beach. Sept. Scores shahtly rough, 15-18 × 8-10 a.
- laporina Batsch S F Gray Common on sed in woods, Clear Lake, Univ., Victoria Beach eastward. Spores vary somewhat A use in different collections, range 10-15 × 6-9 a
- One collection spectage form many Relater had sperce 8 10 x 6 at Semultaria Tauruntia Custornie In Boses was in a mantatum of consider near Marris, Man. July Apothera susken in wit. . 2 cm war rationally double barry, hymenian male yellow spores 18-23 × 12-13 µ. A wholen is identical sport a found at logolf
- Thelebelus Zukulu Hermerl Or dung of deer, Clear Lake, Man , det R. F. Caca. Urnula Craterium (Schw.) Fr. Rather common in May and "ark June in decisious woods, I now to Nortonia Breach and managed. Sources 24-old X . J. 1844. See Harder (82, vol. VI 306)
- 2. Incorremnar Arachnopesias surelia (Pers.) Fuckel. On our wood of Betals allo var papyrifers, Victoria Beath, May Apothecia to 2 mm wage gooden vellow with a fruige to orange harm, and
- c. 100 × 10 s. spores etrauebt or aliantout 20, 24 × 4 s. beroin or one-sentate - Teleficatula Fucks. Un decidaçue word, Univ., July. Cure small byanne becoming pale
- yellow,th, with a fringe of delicate hairs, spores 32-44 × 34 4 a Asceralys Abietis Naumov On tauge of Abira bolannas, Victoria Beach, the corodian stage
- Botherdiscus personia at Berens Rover, verifico by H. S. Jackson. Nov Mycologia, 28-451 Callelors polyporous Nyl. On Polyporu persumenu and Dardolm confessor Nerway House and I now Contact angrees of Calcums are mared to the Latinors, but I manufacture as a function according to Pink
- -- muniflum (Achar) Moreke On conference word. Norway House, on stump of Francisca pennsylvanics and fallen fruits of Quercus macrocorps, Univ. Noores brown, 6-10 x 2-4 p. kwo-cetled.
- Calburia fusarioidas (Berk.) Fr. On old stems of Laportes canadeness. Schurk., June. Apothesia tregular, bright grange-red, soores two-ceiled, 10-14 x 4 s. The constant stage Cultivirucolin Tistague alan man present
- Catinella nigro-olivaces ((urrry) Boud. On old wood of Papulus, I my on old conifer, Vactoria Beach Apothecia 3-10 mm., dark green outside, olive black inside, apores greenish. 8-10 × 3-4 a

- Consequent furfurneouss (Both) de Not. Vary common on dead branches of Corrless, Usav and probably elastwises. The spotherus have been found open in early July Spores about 8 × 2 ½...
- about 8 × 21_{ja}.
 about 8 × 21_{ja}.
 Pers.) Behm. Common or wood and bark of dead Populus, rare on branches of Francius seminiferation, Manitoba, and Prince Albert, Sask. 10 · 16 × 3 · 1_j
- of Pransus passiglienco, Manitoba, and Prince Albert, Sask. 10-16: X 3-4 p.—populneum var prunicala Rehm (as in Brenckle, Fungi Dakotrues, 200). On Prusise promotine. Print.
- Chlorosplenium seruginascene (Nyl.) Karol. Or Frozunts pennsylvinton, Populia, etc., across southern Mandelia. Spece sina., 5-8 x 2 µ. More commonly collected than the sext, differently in spece sine, no integrating since have been found. Seaver (Myoologia.
- 28. 391), however, places the two species together under his new genus Chorecoboria. exempirosum (Oed., de Not. On Salix etc., On v. northward and castward. Spores 10-13 × 2-3 m.
 - wersidermic (Pers) de Net. On confferous wood, Victoria Beaux. Cups green to 24 cm. broad, sperce 12-15 × 3-4 g.
- Ciboria amentacea (Bulb.) Fuckel or a variety On male cations of Alassa means, readed through musicg near vivues, April 25, 1034, H. H. Whetzel and G. R. Busty. Perhaps the superson folder Saliv rections. Cloud:
 - caucus (Reconf. or Pres "Patch". On fallen mole cathons of Populus tremoletides, Univ., Victoria Bestel, lite April or easy May, nomitimes before the last mole has melled as this mode. The cat's not the personal year produce stalked apothetic, sperts 9-2 × 4-6 µ. First found in Marc May 1 1932 by T. H. Harmens of Australia, then a last April 1933, and refolleted with H. H. Weltzu, in the nature of 3.48 constron for a few days note, rach
- spring.

 -- luteovirescense (Rob.) Sect. On more or sess butted targe of decedents woody plants, Univ.,
 July. Apotheris greenash yellow 4.5 mm. wide, stem 1-5 cm × 1-4 mm. dark below.
- ostrolir shows, acci c 100 × 10a, sperce hyanno, c 12-12 × 3-34 µ.

 ratefuses (Webrth) Size: Or carper of old cores of Free sp., Indian Bay, S. E. Man.
 Acotheria solitary, long stalkest, sources 54-8 × 24-34 µ.
- Apostricus sonicacy, uong stantest, spores 57-5 × 25-53 s.
 sp. On falken male eatkins of Bentin oiles van zusjerelers, Votseris Bezols and Indian Bay.
 Countoes in eury May on v. Boutrasted, with sotes, by Builer (82, vol. V. 141). Prof.
- Whotest plans to name this fungus.

 Corrise sercoides (Atrp.) T.i.i. On old wood of Populas, etc., Univ eastward. Apothecia turble: spores 18-22 4-65 a. becomes rectain.
- marcosdes var urmalis (Nyl.) Karet. On Populan, etc., Univ. Keupra. Like the precoung except that the spores are larger, 22-20. \(\), 5-6 μ.
 Desyropphs Ageasavii (Ref. & Curt.) 8-80e. Common on branches of Aboss baleanese, Victoria.
- Boach eastward Hymerogen country, spores c 5-7 × 2 μ
 arida (Phill) Roca. On fallen branches of Pices, Berens River Cupe dark-brown actors;
- spores ovas, h-7 × 3-4 μ.

 Careatiana (Rabanh, Sace. On old freeds of Pierriss nodulosa; Univ; May-čane. Apotheoga.

 small. white, spores 9 × 2 μ or larger.
- Toerana (Pers., Foccet On twigs of Quercus mecrocarps, Univ Apothesia pale bride-red, but immature
- Idryina (Karat.) Sacc. On oid drokdoous wood, Matlack. Cops pale yellom, sperm 6-6 × 1j-2 µ.
- nivea (Hets: t , Sacc. On deciduous wood, Univ., det. F. J. Scaver.

 Pini Brunch: On twigs of Pinus Ronkesono, Victoria Beach: Speces 15-19 × 4-6 p.
- pygynaeu (Pr.) Sace. On exposed roots of frondsos tore or shrule, Victoria Brack.

 Zamerotrucku (Bud.) Rehm. On decaying shrun of Helicurhus annous: Univ. Cure year.
- Toporotecebus (Dud.) Rehm. On decaying sterns of Heliumbus annous; Univ Cupe vory small, white, spores 7-10 × 1½ μ.

 subfures (Pers.) On old herbuscous stems of Anter, stc., Univ., April May Apothesis.
- auturna (rute) in his percentagos soma er som, et e., fur , spri any spotentes grayish, with harv, tenzen-yellow margin, passpayes pointed, spores 8-14 x 2µ. Det. Seaver. This is (presumably). Petus suffares Pere; a Dasyssypha combination was not found.
- Dermates ?Ceraul (Pers.) de Not. On old wood, probably of Prance, Kenera. See Micropera despacement

Dermatea Rubi (Lib.) Rehm. On Cornus sistent/ero, Univ., Sept. Apothecia brown; spores

29-38 × 9-12 µ, larger than described for this species.

Deemasticrella echinata Dearmen. On old wood of "Populat, Univ
Fabrasa Ranuculi Ir., Karst. (Franthyrator singularis (Feck) J. J. Davis). On Rosun-

cuits pessapleous state (astern Man Ascospoces 14 20 × 4 µ, becoming septate into one small cell and one large.

Geophysis mebuloss (Croke) Sacr (a species of Ciboria). On old decidious wood, Matlock Cups whitish 5-15 mm, wide, stalked, spores 28-34 \times 6 μ

Godfronia urceolus (Alis, & Beiwi ') k uni. * On dend twige of Rhes sip., f mv. June. Apothesis autociate, olive green then blackash, spone 60-70 × 2.3 µ. (See Mycologia, 36. 200, 1084). Helatioum 'Albidum (Rob ') Pat. On fallen, more or loss sizedou ned leaves of U'hou a serrienne and Querrea neserversy. In mv. Apothesis situall, pure white, stalked, sporus c. 15.× 4 µ. — answerti (Batoch) Fueda (Pholesia enset) Qolf). On fallen mate cathion of Stalk sp., furly.

Vivian, April, det H. H. Whetzet. Possibly this species found also on fallen cathins of Populas.

— strinum (Hedw.) Fr. Cossion on old Betala, Populas, etc., throughout Masstoba.

- exterioum (Heidw) Fr Common on old licitals, Populus, etc., throughout Manttoba.
 - upiphyllum (Peru) Fr On fallen Inaven of Populus, etc., Miraki Univ Apothecia tanostoned, to 3 mm. wide; aporen 36-20 × 4-5 μ.

 frustigenum (field) Karet. On failers accress of Quereas macroscrps, Univ. Small white apothecas on long stalks; spores 14-15 × 4 p.
 Takytlophium (Demi) Karet. On failen leaves, Univ. Spores c 10 × 4 p.

- renisporum (kill in Conke) or near On failen leaves of I lesus americana, Univ

asiles/flum Fr. On twige of Salix, Unrv. Apothecia vellowash, about 1 mm. wide, with a short stalk, sporre spredic-shaped, 20-24 × 6 μ, with two gutiples.
 autophysistem Full. On fine in refer of Procs, Briefs H.J. Chear Lake. Vivian. Apothecia.

yellow, stalked, 1.4 mm. wide, sporce [0.12 × 4-6 \(\mu\), this and the next det. with some doubt by F. J. Seaver.

— wiresultersum (Vahl) Karst. On old Populus, Keewatin.

Hystaropartella alliptics (††) Rehm. On wood of Se. s., Luv. Sporce 20-25 × 7-8 p. brown, Sweptate; the rice is that of Puter), not lichm see Rehrenborn Kryptogassenform.

Presett (Duby) Rehm. On bork and scort of Limus and other descriptous trees. Birda Hall,

Univ. Spores 12-16 × 5-6 µ, high's brown, 3-septate

Xarachia deformata Peck. On diad brige of Janijurus Astronomius; Beaver Creek. Saak

— Hawword of Pr. State. Common on died Astronomius distillation along the Red River. Anotheria.

blacksh; spores 10-14 × 2-3 µ. Identification tentative Lacknella corticalla (Pore.) Fr Cummon across Manutols on bank of Populus Spores 19-30 × 3-4 µ.

-- Tpepilterie (Bill.) Karst. On deciduous wood, Story Mountain. Spores 10-12 × 4 µ, hysine, I-septate.

Lachnum blooker (Rull.) Karst. On twose of Ribes, back of Sotula, etc., Univ. and Victoria.

Beach: 6-10 x 13-2 µ.

- Triggingsom; (Statet.) Karst. On fallen bud source of Populus Sapannifers, Univ. Cups.

Trigineum (Matsch) Kant. On Inlies bud scarce of Populus casemplers, Univ. Cupe annall, pure white. Common searly May.
 Lectographs: Transcours Rebm. On old wood of Betula, G.ml. Apothecia D 2-0 5 zem.

wide, spaces 10-12 × 4 μ, brown, 3-aspiate.

Mollisia arundinases (DC) Phill. On old stens of Phroposite communis, Lake Dauphin,

July. Apothecas pale, spores 8-.3 × 2-2 μ. Probably the species also on old grees, Univ

 -- Tatrostreress (Cocke) Ph.J. On old steme of Cursum arrense and Mcntha sp., Univ 5-10 × 2₂
 -- cassis (Focke) Saco: Rather common or old stems of Symphorouspas, Univ. Gup gray; money 9-12 × 2-3 u. Dat. J. F. Brenelik, with host stilled this succies in North Dahata.

(see Fungi Dakotenses, 533)

chlomes Massee & Crossl. On old deciduous wood, Univ. det. F J Seaver as var macro-

apora.

—disersa (Blatch) Karst. Very common un old wood of Azer, Franinte, Populus, Sa.st, Ulesus
smericano, etc., Univ. nastward. Apotheca stecl-blice to tax or whitab, sporce 8-12 ×
3-3 s.

medaleuca (Fr.) Saco. On decayed wood, Konora, det F. J. Seaver.
 Trufula Saco. On old grass. Brandon. Apotheca consute provisit, mores c. 6 × 2 µ.

Orbitis chrysocenns (Bell) Seo: On dead This mercinan, Univ., let F J Server.
Tooccinells (Somerf) Karet On old deciduous wood, Univ., Nov. Apothecia watery
pink, spores 5-7 X 3-34 p

Tanntheatignus Fr On decaying Populus, Lucy Apothecia small, lemon-yeliow, see c 35 × 6 g., spores 5-6 × 1-1 µ. Species of Orbitis are not uncommon in Maintoba, but

at is not yet possible to piace them definitely

Pateliaria strata, (Irdw) Fr. Raiber common on old Frezious pennsylemnos, Populus, and
other desidenous wood forestrates on worled wood, e.g. on old spate-handle), Univ. Cups

other decidens wood (sometimes on worked wood, e.g. on od spate-handle). Univ. Cups of the control of the contr

wise resembling P strain P at the P and P are P and P at P and P are P and P are P at P and P are P are P and P are P and P are P are P and P are P are P and P are P and P are P are P and P are P are P and P are P and P are P are P and P are P are P and P are P and P are P and P are P and P are P are P and P are P and P are P are P and P are P are P and P are P and P are P and P are P and P are P are P are P and P are P are P and P are P are P are P and P are P are P are P are P and P are P are P and P are P are P are P are P and P are P are P and P are P are P are P and P are P and P are P are P are P and P are P are P and P are P are P and P are P are P are P and P are P are P and P are P are P are P are P and P are P are P are P are P and P are P are P are P and P are P and P are P are P are P are P and P are P and P are P are

Beach Apothesia red with greenish spathesium, spores $8.40 \times 3\,\mu$ Patinalla fpunctiforms Rehm. On bark of Pouls Junkonna, Victoria Beach. Immature, with a comoid allows accorder by belonging to Plasmodismia.

Pesisulla inquillem (Karsi.) Rehm. On stems of Equisciant Bereas River. Ascosperes a 6 × 13 µ.

Tristidifavescene Rebm. On old Populus and Bura, Birch Till. I. nv. Apothesis kronnyellor,
j. 1 mm. wace, and 25-30 × 4 µ. rekt 8 sponse entered at the apen, sponse 4-6 × 1 ja.
Taylita (Karri-) Rebm. On oir Shilar, I niv. Apothesis reddish to yellowish Sporse. A
 × 1 µ. Namfold (1) transfer Perein adds Karri- to the genus (Lottle) and enotines.

Presistive spike Rehme.
Presistive spike Rehme.
Presista experiencias (Hall) Cell. Common on and herbaceous stems, methoding Aster, Circluse arrens, Medicago notice, Medicate are anna Sendeur armense, Univ. Cupe white, stalked, spaces 9-12-2 %-0.8.

seutule (Pers.) G.ii. On old Pobygosoms sp. and Pétie relptive; Univ. and Winnipeg. Apothecus yellowish, squres 6-25 × 4-6 µ.
 vulgaria (Fr.) Releas. Frequent on falses branches of Comus, Salix, Viburnum, etc., Univ.

 wufgaris (Fr) Behrn. Frequent on fallon branches of Comms. Balin, Viburnum, etc., Univ., Victoria Beach custward. Apothecia stalked white, spores 7.9 × 2μ.
 Passudappatas Medicaginta (Lab.) Saor. Commun on Medicage saysos wherever cultivated in

Pseudopeatas Medicaginals (Lib.) Sect. Continue or Medicago serios wherever cultivated in Man. and Sask; you Medicas allo in Man., coll. J. E. Machacek.

— resends (br.) Karet. On Galom (reform. Birds Holl, Univ. Prysholed by the condital.

stage Placesphoeria punctiforms.

— Ribsa Kithaon. On Ribsa Gressutures. R sugrumand R esigare, Saakutoon and Indian Head,
Saak, see Glocos persum Ribia.

Trifolii (Berza') suckel. One collection on Trifolium protense, Minnki, Sept. 22, 1923;
 co. I L Conger.
 Presponentia compressable Rehm. On old strong of Lauveira compressable Rehm. On old strong of Lauveira compressable Rehm.

Fyranopentia compression Refin. On old stems of Laperine constraint, Schizick, Univ. Apothesis abundant gary zeesty blacks on outselve when dry, spores 8-2 x 2y.

— Medicaginia Fushel (Passiopens) Joveni Nami 1). Bare on Medicogo solite, Indian Head, Suk and Lev. Man. Condul attack with access 4-7 x 44-24 a.

Selectivita Alai Maul On seed of Alass mona, bivian, April 25, 494; H. II. Whetael.
Only three apothesis were found.

Bathles Warn. Common warn May on fellon cooks of Bathle alba year magnetices.

Betulae Woros. Cemmon in early May on fallen seeds of Betulo olbs var papprifers, Victoria Beach. Apethetic with long stalks, eporus ε 15 × 5 μ.
— 7Candolbana (fer) Payled. Selection socialized by H H. Whetzel perhaps to belong to

**Considelleans (1.6v) Pocket Scientis considered by H. H. Whitzel perhaps to belong to this species were found on failles leaves of Queress secondarya, U.m. y, Sept. 20, 1935. fructicola (West) Belong (6. assertance). Considerating stage on Present super (cult.) Brandon, U.m. y, Good on 1922, 1925, and 1925 only; super-sightly, on P. Besseys, Mercles, on P.

meisnoorpe, Saskatoon and Tisdase, Sask

Sclerotinia pseudotuburosa (Eli.) Rohm. On scome of Querous morrourps, Univ. Found once in the woods, can be obtained rather easily by gathering old scome and keeping them

once in the words, can be obtained rather easily by gathering old scorns and keeping them is a taoist chainber. Spreas 8-9 × 5-6 μ.

selectionum (Lib) de Bary. Schroiss commonly found in cultivated. Heliotibles accesses aboving stem ret in Man and Saist. Apotheric have been found in the first or obtained in them chainberg from these selections. The common foundation of the control of the con

of Discous carefu and Pastissire serios in storage in Men. and Said. Scientista occasionally found, in Albona roses, Brancos chemicas ver capation Certinus carenes, Cucasses estitus, Dahma np Je manifolifolis, Levinea autori Missingap artico, Risidential leculator var heterass, Urrico generios nul Frigitius pensores in Mar. See Pholy (80, 64).

Teambrass (Code & Phill). Behav. Annocaet. Islant bayou. Winnose, Seed. State, reddals.

resources (Coule & Final, Incide). Amongst times review, winnings, seps. done, reduces selecting speces of \times 1): 2 μ .

Tapenis Rosae (Pers.) Fuckel Or steam of wild Rosa ap. Line Apolitoria brown, sensite,

spores 7 10 × 1j 2µ.

Trichopeziza albolutes (Pers. Size. On deciduous wood, Univ., det. F. J. Seaver.

Tympahus Pinastri Tul. On conferenta wood, Kenzisa. The acri contain numerous small sports
— spermatespers. Nyl. Not acression on back of Populus, Univ. insteard. The acc.
contain many sports 2-4. Jp.

PHACIDIALES
CBithris factors (Coults & Peck) Ell. & In On used stems of Letinu gravulandicum, Berens
River, July Disc of anothers whitish, sorres 20-40 × 13-2 α.

River, July Disc of applicable whitch, sports 20—40 × 14—2 \(\mu\).

Cryptomyces Pteridis Robut 1 Robut On from On fronts of Pierolfon Interrution (Pieros symbol),

Mankli. Produces back stronats on the Isaves.

Minaki. Products basis stromats on the leaves.

Oculiaria opellata (Pers.) Beliroct. Cen tauge of Salix, Univ. Apothesia golden, orumpent through the baris, roores 30-40 × 11-14 a.

Ostropa cinerae Pere.) Fr. On fallon oranters of Cornea sidentifies: Processe pennajientira, Populas, Quercia mercecurje, Sta. x. ana. Come americana. Care. Spores to 250. × 2 p. Propolis fagines. (Science, Narst. Common on oid coedulous mood and et.mps., refuding

Francis, Populos and Queeus, 1 are entired. Apothesis whetest, viengate, 6at, apren 20-40 × 6-5 a.

Rhytisma accurates (Perc.) Fr. On leaves of tree francis one of montarious, Portago in Parties and Vises. Not comments out the intest are not commonly record.

Andromedias (Pers.) Fr. On Andromen's polyfolis in the conference regions of Man., north to
Churchil and at Prince Albert, Saek.
 Asteria Selver. The black goots rather consistent found on seaven of Aster were found in

[— Actoria Schre — The black spots rather constantly found on scaves of Aster were found all mass to be caused by larvae [
— punetatum Pers., Fr — Common on scaves of terrapicoloss in eastern Musi-

- salielnum (Pers.) Fr Everywhere in Man and Sask, on leaves of Salix

Schizoxylon compositions Fil. & Ev. On orazzhio of Acer Negonda and Cratacqui, Univ. The long accorpore break up into segments 4-10 × 3-4 µ. deciplence Karst, var Semphoricary Reism. On tours of Spracheroscopy orazinshife, Univ.

Sporce 100-150 × 1 44 µ Det J F Brencius, who has studied this /.ngus in North Diskota

— insigns (ds Not.) Rehm On tw.go of Prums, Univ. The long ascosporus break ..p .nto

cells 6-9 × 3-4 µ — sepincola. Pere: On Press onsorieneus, Ginali: Anci c 300 × .2 µ, 8 spered, spores 220-250 × 4 µ, multisepitate

Spharopeala Vaccinit Rehm. The species or a form on old seaves of Arctestayhytes instincts, viotons Broch. Spores 12-15 × 5-6a, becoming 4-celled.

Stictle curtispoors Dersons & Robb, 7(1-64). On dead branches of Populou recessionles, Univ.

Despite convolerance search, no further collections of this Statis have been outsimed. The spores are short, 28-40 × 2 µ.

The spores are short, 28-40 × 2 µ.

The spore and P Opulus, Univ. This gray apothocia.

break through the bank spores 120-200 × 1-2 µ modils Pers. On twige of Campaina arbanezerus, Industr Head, Stak, of Vibursian Opicius and Phousius, Univ and Victoria Baselh, Man.

- radiata (L.) Pura. On targe of Viburnutz Lentspo, Populus, etc., Unrv., Victoria Bench.
Disc first-colored, margin stellate or radiate.

HYSTERIALES

2Diebsana Papudi Dearness & Risby (7) 64). On guils on Populus balanmiero, Berda Hill, Gundi Wirmpeg. Presidas present with sporer 18-30 X L 3 µ. This fungua creasina innertiam. The guid took life the tree on this love in Mask. Upon which Cururbitaria angains (qr) was found but no Cocultrians has been found. in Man.

Glonium stellatum Muhlenb in Fr. On drenying Abres belances, Victoria Beach. Spores. 2-celled, c. 20 × 6 µ

Graphyllium manitoblerus Dennes & Bube (71 85) On Phrogenics communes, Clear Lake, cell. I. L. Conners. Spores muriform, 20-25 (32) × 8-12 m.

Hypodorma exirpinum DC - On Serpus entales, Emma Lake and Venda, Sask Hypodormalia ampla (I. J. Davis) Dearness - On needer of Pinus Rasivana, Eik Island near

Speciernalla ampla (J. Davis) Denrices. On needles of Pinus Rankwana, Elk Islami Victoria Brack. Mun. and Macdowall. Sask. Spores with a gelatinous sheath.

 concolor ("Jeannes Darker Recunded by Darker (The Hypodermatnerne of Confirm, Cortx Arnold Arburetum: 1932) on preside of Press contents was different (— year Macrogana) Cypron Hills Is cort Reserve. Jasas., and found there also by R. C. Ransell, June 25, 1806 agreements 40-555 % 5-74. with a kramma histalt.

Hysterium acuminature by On (ungs of Juniperial horizontains and Pirea curvatents, Berens River, Victoria Brach. Hysterishtein small, agence 13:16 × 7-6 p. howes, 4-celled, sometimes in to 21 µ ions. Class algore (form in not i-recommen but a not detected unless the targe are gone over with a hand area. "Grination decayants may be included."

taildens Schw On scool of Ceienrae armiless I ny Boure e 40-42 × 0 p. becoming

S-septate, brown with the spice, cells aghter.

Pullcare Pres. Commun on oid teach of Bernio alles var papprofess, Berons R.ver south-

castward. Spores 20-28 × 5-5 µ, 4-celled, end cells pales.

Hystorographium flexuosum (felix) Brhm. On twos of Viburium Leading, Un v. Spores.

Prakerographium Brausseum Orden / Rehm. Un lwgs of Fisherium Lendops, Un v. Sporce muriform 4-0-52 x, 18-52 p, brienn.

— Prakini (Pris. de Not. On almost every dind branch of Prusium penniphmini across Manchola, metry on Storium Lendops and 1. Opides. Can be found with matter scores.

any month during the year. Spores 34-44. 45 × .5-18 µ. Small hysterotherts were found to renton spores as large as those in the large hysterotherts. Most (Schw. Mehr). Common on old word, successful of Possible of the Mehr. Norway House.

Most (brhw.) Mehm. Cummon on old wood, especially of Popular and Balis, Norway House, south to Univ. Sp.ors brown, 15.23. × 6.18 μ, 3 to 5 septate, with one to three longitudinal sents.

— novacassariense 14. i Rouza. On wood of conder, Bovens River. River a muriform golden, yellow, 38-68 × 11. 14 µ.
Londhum myrilinellum Fr. On conference back Norway Hume. Hysterotheese short, 0.2-0.4.

and bonna of Pinus, Berens Rurer to Linu Mysterotheras 0.4-0.8 mm. long, spores up to 150 × 24 p.

Lephadarramy pusperhures (± c) de Not. On old nordles of d'autperus horizontales, Victoria.

Beach. Anne v. 00 × 12 u, spores futurm, about 2 u sude, such sheeth.

- TPicease (Parke 1) Hobo. On needles of their botsonice Bereis Buver, Man and perhaps at Kursence: Lake, Pask. Hysterothesis amphagement, spores 165–50 × 2 u. Consequence.

browning and death of the affected foliage occurs.

Pinnatri (Schrad Chev On needles of Pinnational, Norway House southward and at

Macdovall, Seek

phasefeddes (A.h. & Selew) Duby Common on failtre leaves of Lettur groundendicam,

Berens River neuthernol

Derive diver equivers.

Sumidiam (Fr.) Rehm. On overwintered Iraves of Aradonchier alsofolio, Indian Head,
Sask

MytHildion Karatsens Sace , or near On conferent wood, Norway House. Spores 38-45 × 4-5 μ, 5-celled, brown

 Thujarum (Cooke & Peck) Lohman. On Thuja occidentalis, eastern Man. Spores 29-41 × 10-13 µ, brown, mostly 4-6-refled, the two order relia often larger.

TUBERALES

Panodolukannas microspero Debt and Lambert (Myrologia, 22–22), 1890.) Found to a mushronic before the Univ by W. F. Hanna selandicision weeded by k. B. Lambert, Tabor candidaton Hark. Bereath hark on a fulre log of Populou Univ., Popt, col. J. H. Chage. Tabor white, and t-proving provided A4–22–328, all factorities for the Galley-Slow rates. "Since I received your approach. I have collected several of the same species in smalar stations, though the receiver I had never new in strong before the another several."

inches of earth."

—neparama Gikey: One specumen in Assimbana Park Winnipeg, (W. Lowe, det. Dr. Gilkey: Frist found in California, reported from Ide Royale Mich. by Porah (12).

PERISPORIALES

Apinoporrae Callinati (tichw.) v. Höhn. The sytches broom of tweisnester electrics is very commer across Max. and Saak.

Emplade Cichemenseurum Dr. Cullered on talleron include, Amer Londigmon, L. Londison, and L. Londigmon, L. Londison, and L. Londison, L

(exit), Sukataton, Bank Calesqueller M. On Française trivalet, I Salaz-Nask probably on Urstla girlesse Securities interfiere and Nortey probates in Man. and on Yestiga responses at Avoidored Role generation 18. On Springing response Reviewson Appropriet Francisco Justices Pais compress Nasac criteria and Francisco and Man. and Social contribute consists only in Proceedings of State Interference of the Nasac Appropriet Reviewson Appropriet Francisco (Proceedings on Proceedings of Procedings of Proceedings on Proceedings of Proceedings

Fungus on the Gramonies.

Pultypent DC: On Islajin is simps craft: often njurissas, Justi-pus német us (nature ingranous, Le resoure, Orienteen francis: Orienteen fr

as for north as The Pas, but not so injurious.

Microspherer Almi J.K. Wint. On this screen Birds H.J., Man and Fairm Lake, Siak, on Corolar in Longer planerers and I frances in Man and Bask, on L. Nathrendin Syranger religious and I shoreaum Lestings in Man, on Betula up and Sura unerscreen was

Syrrage respects and I sharnum Leneago in Man, on Betula up and have unreraces was sugarifified in Spale.

— Abril vir. calestadophora (Ath.) Sumon. On Queresa rescreezes, Utiv. The tips of the

appendages near lateral branches.

- diffusion Couler & Prex. Protably this species on Lackyras odorscus in Man. and Saak and un

Symphotecorpus ecceleration in Man. and S. ollows in Bank. Phyllastitus coepius. Pers i harst. On Benefe othe ver papprifres in Man. and Bank., on Celastras areadons tamina inclonifera and t orgina nutrata in Man., on Atonia piecona and Cerrus intentiones in Bank.

Podeophoers Onjacanthos (IX.) de Bary. On Instanchier absolute. Prinsis Besegn and Prinsis typ. cql. in Man. and Bash, on Prinsis possile in Man. and P. melenocurps in Bash. Bomelimes nutrious to Prinsis.

Rhinagene Symphesicang Nod. On leave of Nymphesicang necessaries. Carlyle National and Multitation Haal. This raw and structurating tungung can be found on the living linear distinct the neutron back the accomposes are not majore. Lawren wrapped on rheserichi by R. C. Ramed and Jazerd under a begin new morte famous supers fare remainer in Mar. II. 1881. There reports were 10-12 X India, Novembell, vollational-brane. Res. Myriologa, 20: 2021. In India.

Sphoore-thera Humuli (DC) Burnit. On Rosa spp. (wild and cult., Reduc stories van striperus and Fragaria sp. (wild.) in Man and Busk, on Explains on advicerous on, Green metro-philips., G. etterium Humuleu (Josephin, Rhou Stripen, Rose Stories, Rose).

- on Gibs fasoria and Yuda considerate in Back. The midden found in the condital stage on an agreement or gardens is included here, although S. possess may sometimes be present on these resec. Fundary midden of Rasphery was murrium in Mass in 1935.
- Sphaerotheas Humaii var Fundary mider of Rasphery was injurious in Mass in 1985.
 Sphaerotheas Humaii var fullgiese (Echleth) Balamon. On Shepherdu canodheus and Tenanovan officiante si Man. and Sask, on Apadathe Feerindon, Buleiu foodoon. Veola canadiese and 1 irroduct or Man. on Massachuma.
- however that the rungus is a "native" of Western Canada.

 Unclouds originate Croke & Peck. On Arex specimes, Victoria Beach eastward. A collection at Minaca had many feur-specid asci.
- -- necetor (Schw. Burnill. On Parders quinque/olis, Bethany and Univ., Man. Saskstoon, Sask.
 -- Tearrula Cucke & Peck. One collection on Francia sp., Univ. The Uncombs present
- rparture Cosec on From One consecution on Fragatian sp., Unity The United Species agrees with C partial accept that the appendance are extain too long and three Saulois (DC) With Cosmoon on Populus belowin/or and Sauce sp. in Man. and Sauk., on Pupulus acquisitivity, indican Rusal and Assemble Sauk. Specimens on Salix sp. from along
 - rapsens expanyers, Indian Rusal and Kamack. Basic. Experiments on Salits sp. from along the Hudson Bay raiway were noteworthy for showing perithicis but very .itle sayonlial development. HYPOCREALES
- Acrosports un compressum Tode On old Agropyron and Bromur, Univ., May Porthoda creet, speen c 300 × 1 in Mass Brandriff (Mycologia, 28 228) is included to place that purifing langua rear the Coryoliabas and Possifonthereals.
- Caloraetta Desmessii ki. & lov (a form of t. simonuts (Berk.) Rest. & Vogl.?). On Massaria on Ameloucher similate, Univ. Asco. c. 150 × 14 µ, spores 21. 28 × 6.7 µ, becoming 4celled.
- Chromochron galatinum (Tode) Beaver On Balix, Univ Biromata soft, greenish-yellow, aut. 16-poord, spores 4-64, greenish-brone.
- Claviospa miscrocaphala (Walfr 7 Tul. On Olyceric (Pencusarso) grander, Clandeboye, on Philosis pretrone, Clater. Selvota small, on granes with small spikelete, probably only a form & C. purpures.
 — nigritana T.J. On Electrans by Carlyte and Sankatono, Sast.
 purpures (F) Tul. On Ageorges distributions, A Souths, A tentrum Brosses incretion.
- Chimaggier a ya. Esparis tasamin, Z. Moroun Thelains algare Saude orme Appares product, Tributes reconsult all dearm all hand table, yield register measure. A reme, tree from Underhyndrian Progress confidence ormet in the contraction of the Armst Halmin, 2 and a second progress and the contraction of the contraction of the damp range. Ever allow within conducts at the elevation beams of them, and invoked may describe the contraction of the second contraction of the contraction of the
- 7 × 13 mm., yellorish brown, stalk 17 × 3 mm., brownesh, prainate, asci to 130 × 4x, appres 50:100 × 13-2x.

 spores 50:100 × 13-2x.

 stavulata (85bw) 131. d. Pr. A specimen was found by Dr. Dearness on Lecanistic ap. on a
- twig sent him, Univ
 mulitaria (L) Link Reported by the late Norman Criddle as present on "grubs" at Trees-
- bank, specimens not seen.

 [Cresowsetria app. measured under the more familiar dame Kectria...
- Eleuthereneyces subulatus (Tode) hocket. On aid Agaroc and Polypores, Norway Home, Victoria Beach. Spores with a thon appendage at each end. Prof. H. B. Jackson writes that he appear with our fibral mi placing this spores in the Punya Imperfect.

Epitchiae typhina (Pris) Tol. (Typhinium (pphinium Seaver). Rarely seem in casters Man. on Jyson, itr., some common in southwestern Man., on Agreepeus dispitchiams, 4 Smiths, (Salmingradus succeptus and O. op. in State.).

Gibbornia Tiaubinets (Mont I Sec + or G Zee | N.Nn. | Peteb) One collection on old stalk of Zee | May | Univ. The Fusicum stage | Of pronounies or has not been encountered.

in Man. Peritheenal wall, blue, aposes fundorm: becoming septiate.
Hyperconclusiones of the Ever Chical decision would 1 iv., periaps this species on old seaves of Pops on, M. tasks. Personals recrusted used from London, Obst. Strumsta shittah, small, see R. 100. × 4 ip. Septeral university the species such divide into two halves about 4 in diameter.

acoust 4 in districter — elicina Fra, Fr. Ch old France four-nierius F. pinicota, and Pulgnerus betalinus, constrous areas in Marc. Halves of spores 3-4 is.

pallida Ell & Ev. On old Polyperas pubererus. Kenopa. det E. J. Seaver - matatia Cooke & Perk. On developing word and &d Hypox ion mong the Red River

- patents Control Pres. On here and sized of feet A presidented Popular, Univ.

-- aulphures three I fare. On direlents a rel, I my. Atomata large velots, spores.
 10-12 × 4 a. d. viding into two arguments each 5-6 × 4 a.

Hypomerpos upiculatus Priki Faver On deredouse most, Luir Stromata effuer, reddulupurple to prilowah ase r. 1.0 c. Sg. apores 25.22 x 5 as Zeelled, apoulate margantists Pers) Tui. On all Johnson sedams, P. account, P. account, Luir to Bergin

Barer Riemania ranage to herk will appear servations, properly 7 servation, Cold to better

Bernal Riemania ranage to herk will appear servatione pointed 2 servation 18 24 × 4 S µ

- Institute turn (Febru Tul Common on Lactarius repensity L piperus (pr.), Lint to

Bernal Riemania ranage in the morth to be present up to the Artest Corbe in

Melani pirthwani. Strutnia new-control spures appears 2-relied 20: 40 × 5 a.g. Melanisapses. Registeria (Fres.) Further. Rather recipion on rold Frest, principe, Virtinia, Beach. Pertheras raregitives in patches, which three liderkoli with a beak I 2 mm rong, egores 10-14 × 6-4g. townstel, conditionals.

spores 10-14 × 5 -8 µ, brownest, continuous.

Regista canadastras (Ticke F. F. L. sanson, on Ace V. quanto, f. rantena constrae Prunsa epp.,

Rebes rep. and Ryaran p. rull yas Man, on Prunsa incineurorpo and f. (insu. parrifilms in

Robes rep. and Ryaran p. rull yas Man, on Prunsa incineurorpo and f. (insu. parrifilms in

Robes Remainments of the fire dischards insurance. A position of 1.15 of 2.4 ft in. 2 deep.

Boo also Tubercularis subjets

Teacurhistula Nary Di fauta Press, Char Labe Aux minuature
minushantal (Tude) to On District or tuber and Valen on etc. Herein River
minushantal (Tude) to On District or tuber to Valen on etc.

epitopheoria (Trefe) by the Distrippe at good Riskyon and Valon up etc. Herena River in Univ. Spaces 9-12 × 5-8 µ. Paulan Theft by C. Unison at squad. Washington and Populus and other decidious wood.

The perthera resigns at the tor to become per roal spaces 10.15 \times \times 6.0 Evelled – Prubinarys Cooke. On terms of certain Univ. Pruthers bright red a few on a concise stema, and \times 60 \times 5.0, spaces $8 \cdot 10 \times 4$ g, becoming Seelled.

Behalalla vicinità (ADA & Servi Pierr. V. M. Rossola 100, and reducing on Lactarius spo., Univ.

Pendisella viridia (Al) & New 1/Ner. On Russia spp., see entimos on Lactures spp., l'inst to 1-etono Bench eastward. The superium prevents the development of the giffs, and products a striking generals strona over them. Sonbeconcette balacames (Cook & Peck. Server. Contaon on branches of Abso balanting.

Bercon River south and east Spheeresborna Hulsebaschii Ondres. On dung of tablet Scaver Creek Rock , det $R.\ F$

Case. They execute in borndine ends (there: 1 Secure — Common on Rubes for allowing and the cultivated appears R universe, R Greateries and R respect, L are — Spores marriagem, 15-25 \times 6 8 μ .

BOTHIDFALES

Curroyalla Biabyi Dearmon (71 80) On branches of Fraziona portugionore, Univ. Typo oxidected Apr 22, 1928, collected also May 30, 1938, has not bren were nated. Bytomath black: reumpent containing locals with sec 73-100 x 12-16y, spores 30-28 x 7 10 x.

black reampent containing locals with new 75-100 × 12-16 µ, spores 20-28 × 7-10 µ, smot/oras.

Bibattyon isosrbassium (Schw.) Thoma & Syd. (Fleeringlate morbou (Schw.) Sacr.). Very common on Printer systems of Propagation of Printer systems Propagation and Printer systems. Propagation and Printer systems of Printer systems of Printer systems of Printer systems.

"May-day tree," in Mon , on P molenorerya and P promphenous in Saak.

- Dothidea ribesia (Pers.) Fr. On Riber foredom and R sulptire, Univ.
- Elsinoc Ledit (Peck) Zeller (tulographens Ledi Peck) On living leaves of Lethert growtendrom, eastern Man. The fungus and disease are as described by Zeller and Determine (Phytopath. 33 1965, 1961).
- The state and Determine the state and Determine the state and Determine (regisplant 31 985, 1601)

 Endodochella? sp. On overwintered sterms of Phermagnes rhombifolia, Saskatoon and Totake, Sask. May and Jury Streams forming a clypeus with the syndrama, arequare, black, coertaining locales with a requirement point of the syndrama state of the syndrama
- 2-celled. Description not found, material mostly immature

 Montegnella Heliopeldis (Schwi) EJ & Ev On old stems of "Anter, Greina, C. W. Lowe
- Inimature, but the large black stromata are fairly distinctive
 Ophicolothis alrasem (Fr) EL & Ev On Asses means, The Pas, cold. F. H. Gregory Black
 stecents or a view lawses, no prove found Segrenour solution this amongst On Fengi
- Phyllachora gramfinia (Pers.) Furkel. On Eigenin considerate and Mullenbergia cuspulata in Max. and State. on Agroppine trustron. Agrontia hymnitae, Pigenia responsiva and Organias aspergichia in Man., on Calisvegrouse considerate and Organicia attenta in Sark. Threesen and Sydom (Ann. Mye. 23. 431) restrict the name P. generates to the form on Eigenia.

- Heracles (Fr.) Fuckel. On Heracleson lansium, Wanapog Benefi

MICROTHYRIALES

Imperfects.

Diplecarpon Ressa Welf (see Actinuments) On every attred source of Ross sp. cult. Saskateen, Sass.

Halbanialla (Asteridium) Limmess Dearness (7, 66). Type on Prayer of Limness bereats

- Malbaniella (Asteridium) Limmeas Penvices (7, 66). Type on haves of Linnen bornlis var avericens, Victoria Beach. Perthoes. 100-, 20 µ wide, acc. 20-27 × 12 .5 µ, spores hvaline, 4-ceircd, 18-,8 × 3 µ. Also recorded from New York.
- nyemen, w-could, 13-, 3 × 3 µ. Asso recorded from New York Stigmaten Junipars (Desin.) W. M. (Stymeticlia Ara). On seaves of Juniperus communis, Victoria Bench, June-July. Assospares o 20 × 3 µ.
- rubicols (Ell. & Ev.) Thesis. (Asterbia rubicosa Ell. & Ev.). On Itavos of Rubius idenus var асытемлятим, Стев Lake, Keetvat.a, Winnipeg. Автоприяз 2-colled, 12-15 × 7-6 µ.

SPHAERIALES Charteren

- Ascotrichs pusitle (Fil. & Ev.) Chivers (Checkensum Elizatum Sacc. & Byd.). On rotting listh in greenhouse; Saskatoon Stak. Hairs elender tapering sporce 6-7 × 44-54 µ. Checkensum bestrychiedes Zepf. On dang of here, goat and sheep, Univ. Hairs celled, success 6-8 × 6-60 µ.
 - eletum Kunzo & Schmidt. Commor on mouldy lunds or straw of wheat and narley old becom. It is leaves, narradae dung, etc., in Man, and Saak
 - broom, Iris leaves, pastroign dung, etc., in Man. and Sank funicels. Cooke. On dead seedlings of bastey old paper and sociated six toxes from soil in Man. 4.7 2.2 4.4.
- Man. 6-7 × 2-4 µ.

 Man. 6-7 × 2-4 µ.

 fusiforms Cavers. On dang of porcupine, Clear Lake, det R. F. Cain. A rare species.

 globasam Runre (C. afrecewar Coose & El.). On gl., inste of Tritum assistsum and in soi. in
- Man, on doad wheat plants, Annahrim, Saas: , on dung of rabbit at Beaver Creek, Saak:

 ——indiscurs Cords (C. zecosos Wiles): One soutton from butter: 0~3 × 4~5 μ.

 —murorum Cords. On old berths, ideal turned of esteals, and dung of brone and sheep on Man.
- spirals Zopf. On paper in a laboratory culture. Sports brown, slightly apoculate, 9-10 × 7-3 a. An isolation from soil also apparently belongs here.

Somtariareas

- Bombardia arachnoidea (Niesel) Cam (3: 73). On dung of deer and porospine, Crear Lake, Man, of rabbit, Eurma Lake, Smir det. R. F. Coin. - caerulas (Petch) Com (3: 70). On horse dung; Unv. Perithesia blaub purple, aposes. cylindricsi, multiputtuate. 46:-90 × 4µ, with a geathrous appendixes shout 40 n long at
 - each sud = caprophila (Fr) Kirsch. On outtures of horse dung, Ussy. Spaces $40-80 \times 3-5 \mu$ with loss sured succentages, finally swelling at one end.

- Conlechasta discospora (Aurrew) Cain On dung of percuping, Clear Lake, Man , of rabbit, Braussyng Man , Emma Lake and North Battleford, Sask , all det R. F. Carn. On dund of starts can, Long Point near Churchill Man, coil Wm. Gassow per therm bearing abort. dark harts, ages c 100 % 12 a statements, stooms therefrance, surrounded by a marriagrams. envelope, 12-13 × 10 × 5 at
- becomplace (Berk & Rav.) Cain. On dung of porcupior, Clear Lake, Man., of rabbit, Benustyour, Man., and Humboudt, Snak., al. det. R. F. Cain. Also at Victoria Beach, Man., spores duecoid, c. 10 × 7 × 4 am Sarrandat Marchai) (aux (2 65). On done of normany. Char Lake Man of religit

Emma Lake Mankovail Murrater and Proce Albert Nask al. det R F Cain. Not recorded by Caus elsewhere to North America.

Dolltachia biaparula (Croun) Haner. On dung of porcupers, Clear Lake Man , of rabbet, Beauerpoor Man Dana, Mandowall Murmier and Prince Abert Sask, all det R F Cara. On hard decoming from Berrie Hirar, perithers with stiff bristies up to 100 a been a 6-8 a at hore stores 16-20 a 6 a hours constructed at the sentem - Surfuraces Novel . On rabbit done sent to Ottava from Long Point near Churchus, cell.

Wm. Games, det N. Dowdong. Hopers brown, 2-celled, 42-50 x 15-20 u, with a hyakine sheath. Marchatta Revi. & York. On dong of purcurane, Clear Lake, Man. of rabbut, Brausesour

Man and Duna, Sush , all det R. F. Cato. On rabbit dung. I nov., Man. apoptu 10-11 × 5-5 µ, 2-celled with a hyaline sheath - throagamerete Can On rathet dung Vivian Profession nearly smooth, spaces 20-24-X 5-7 s. 2-celled with lateral germ-el-ta

- Winted Phill & Plour Do rabbit done from Beaver Creek Base det B. F. Cain

Goldstrouppers cornelly Dond by 1221 Isolated from durated ctoke of Areas and w. Aparts. from diseased errors of Trate on durant. Delegate mustages by J. F. Machares. Peritheria. subgrobner membranaerous filio 700 x 300 400 µ, aw 215 260 x 23 25 µ, with two tacked thickenings near the apreal perforation, species 5 per ascus, 26-32 × 23-25 a smarked with "dimples or forestate sculpturing over the surface of the spoor. The gricus Gelasmosoon was received to reclude this and the forming Manitchan species - tetrasporms Doming (122) On dung of practingan from Hudere's Day, 30 more borth

of Fort Churchill Man, coll Wm Couson, instated and studed by N Dondard. Apparently area in Ontaric and England Pontheria black mendicarcross prinform c 600 X 200 a seri sormally 4-spored r 230 x Ku, spores mostly 20 26 r 14 16 a hystor then greenes back foredate. Dr. Dowding reports details of the life battery and it has also been much by Ducker in his studies of sex site, sace Mysteleria, 27, 429, 1935. See was Huller (82 vol. V 110)

Henceuses meederia (hr.) Fr. the rathyl dung, Brauwiner, Man. and Dana, Sask , det. R. F. Cam

Plearage betseuchasta Griff (a Nordana). On horse dung, Univ. Printhecis riothed with audulmated have, are. If-spored, barenate, spores 30-34 × 16-20 µ, with two gelatinosa appendages at each end, sometimes fused at one end Sumbaria anomala (furff.) Sacr. On tard donotance I my Presherum apareth above

the myceloan in which it is intecided givenish with a short black brak area t-sported, spores Z2 24 × 16 1% with a primary appropage about as long as the space anascina Ces I West (Pleaner inserted) the home dank, Le v and historia Bruch det

in part by R > (san. Prothers telera paratiem, are, normally 4 second, source oceanable 36-42 x 18-21 µ fractrated by Dr Downing ,1100 who studied the sex in this species. the found about one trace o a thousand to be a must smort about one in two hundred to be a "dwarf." See Buller 082, vols. 1V and V)

- beenhardsoides Aurice. On dang of increaser, Clear Lake, Man , of rabbit, Annaheum and homes Lake Sask, all det R F (son Also at Univ and eastern Man, pertheesa atomoth, romanerous atomic 20-30 x 10-12 a, surrospect by a grintmous electri-

- elteins Petrb. Abundant in damp chamber on dung of porrupion from Clear Lake and eastern Man, det R. F. Case, who finds that it agrees with Petch's description. This merces is apparently known only in Cryon and Manifeba, fairly contain in both places, on dung of riephant and of porcupose. The fungua, as Cais points out is a setter, is really a

Bombatda. It is first resident as a thin issuo veilor with of agreetum over the stags, from which size both-whaped polanical with produce ploudiat planicopyre, then prenthency appear covered with a veillen green tomorbum reports β per areas, $\delta \delta$: $\delta \delta = i \cdot \delta a$, with a thin had not ask propertier from each real spit of δD_i and ρ_i even appear from ρ_i the properties of the properties of ρ_i and ρ_i are the properties of ρ_i and ρ_i are the properties of ρ_i and ρ_i are the properties of ρ_i and ρ_i areas of ρ_i and ρ_i are the properties of ρ_i and ρ_i and ρ_i are the properties of ρ_i and ρ_i are the p

Serderia collapse (Griff) Nor: On raisin durg, Mercorall, Nasa, out B. F. Cain. On durg of rabbit and graft, I nav. Man, sari 200 200 x 80-100 µ with about 64 spores, spices 16: 23 x 10. µ with appendages worth frontly collapse surveicella. Waid. On durg of porrupasy, Clear Lake. Man, of rabbit, Emma Lake and

Burnier Sook, as del R F Can On doing of goat, rabbit and above, time base assetting the second of t

Lake, Man., of ractit, Beaver Creek, Dans, Ezitha Lake and Muenster Sask, all det. R.

Lake, Man, of rashit, Beaver Creek, Daris Limia Lake and Muenter-Bank, all det R. F. Can. On during if goat and rathin, Lin v, haure abort, in tults near the speci of the perithenom, speces 22–26. × 14:18, with approxiages.

- Medicalizers Witt. On during of series. A cronn Feach, Man, of rathit, Muerister, Shank, det.

Bt. F. Caco. Amo at this Man., positheria smooth transuorat, sporce 38-42 × 30 g, with primary and secondary appendages.

- security and Gird's Sace. On dumy of horse Univ. This species is associations in the lack of a
beak on the peritherium. Secondary appropages were not noted on the sporce, otherwise
that lungua file Crisfith's description, yertified by R. F. Cain.

— firesbrinta Bayer. On ribbit dung Scott, Sask., det. R. F. Cam.

— firesbrinta Bayer. On ribbit dung Scott, Sask., det. R. F. Cam.

— firesbrinta Bayer. On ribbit dung Scott, June 1997.

— firesbrinta Bayer. of created in Sast Continuous on June 1997.

— firesbrinta Bayer.

— fire

10.12 m with two germs pore surrounded by a getta mass should be Bullet OR2 will V as Friendrick freecode).

In the process of the process of

stacoth, are 240.200 × c 65 µ, with about 64 spons, sparrs 19-21 × 11-12 µ, with appredage avoidly accentre at each and of the spare. Char Lake, Man, of rabbit, Prad Bosspath Regulatories 6 no. 07 13 — 06 doing of porcupant, Char Lake, Man, of rabbit, Prad Bosspa-

Bank:, both det. R. F. Cam.

- macrospace Aueres. Cultured on again from dung of rabbit, I'min. Spores larger than in
the common A. franchi, herry 25-32 × 15-18 p. returnly surrounded by a gelatinous sove-

logs.

—minuta Fuckel. On dung of horse. Victoria Beach, Man., of rabbat. Beaver Creek, North.

Battleford gad Prud Fommer. Kork, all out. B. F. Lans. On sidd herse dung, f. nev., Man.,
haurs luffer about reserved, apress 20.2 vs. 12.3 bigs, with pressure and economizy appression.

- neglecta Hansen On dung of porcupion Clear Lake, Man det R. F. Cain - neglecta Hansen On rabbit dung Beauty Creek, Back, det R. F. Cain.

entarienges (a.n. Or rabbit jung Braver Creek, Sack, Jet B. F. (a.n.
 pletespora Wint - On rabbit durg, Murayter, Sack - (a.n. (3.4%) states that three specimens

have i6-spored asci and spores 33-36 × 20-24 µ = emptespore (ain On dung of parcupore Clear Lake, det R. F. (ain

 setosa Wint. On dung of rabbst, Dana and Emma Zake, Basic, det R. F. Cam, Univ. and. eastern. Man. Spores about 128 per aecus. 19:24 x 11.14 st, with a primary appendings bearing a necondary appendier, at anch end of the soors.

- significant on the percuping dang Clear Lake, det H. F. Cain

teenfoldes (Griff.) Nacc. On home dung from Nissons. Brach, det. B. F. Cam. On dung
of gout and home, I now spores 5 per accus. 16-62 × 39-32 p. apticulate at one and
and with
very lone relations amornitaries.

• Telegram Wint. On dung Operagne, Clear Lake, Man. of rabbet, Beaver Creek. Emina. Lake and Prud browne. Sask., all det. B. 3. Can. On rabbet dung. Linv., perchecia, translocent. is In short, weighte have, sported for areas. I 8-20 × 12-13 y., with appendagns.
• weatlat. 200. On dung of home. Various Beach, Man., of tablet. Beaver Creek, Moentier.

results April 1 in dung of home Victoria Strach, Mailt, of tablest Feative Creek, Studenter and Prufflorame, Saak, all det R. F. Cain. On thing of home and goat, Univ., Max., peritoreis, greenish, with few olvareous hairs, spores 30-34 (80) × 18-20 µ, with characteristic primary and secondary appendages. Sordaria sygoapova Sprg. On horse dung, Univ., Man., on rabust dung; Braver Creek Suck det R F Com. This unusua fungus is apparently rare a Maz-

Sporormia australia Spec On rabbit dung, Prince Albert, Sask , det. R. F. Cain. - daketensis Guff. On dung of poccupane Clear Lake Man, of public, Braver Creek and

Dans, Sask , det. R. F. Cars. - fasciculate Jensey Two polations from soil in Man. (76) Assi 40-55 × 20-27 u. 8-moved.

spores 4-colled become 28-82 × 6-7 u. - heptemera Auress Or rabbit dong Benyer Creck Sask, det. R. F. Cam.

tatermedia Aurera On rabbit dang from carbt localities in Sask , Jet. B. F. Cain, on cow dung I are. Man. somes 4-seried, 51-86 x 9-18 a. Foreign this species on an old wooden

strings, Univ spores 36-42 × 8-9 µ late Griff Un dung of percupose, Cleur Lake, Man of rabbit, Beaver Crock and Dana,

Sask all det R. F. Com. Or millet Jung, Univ. Man. appres 4-celled, 44-50 x 17 20 a. lepsetna Nicos. On dung of norouging, Clear Lake, Man, and on rabbit dung from exminors a Sock det R. F. Cam. Sperimens at Lan. Man hore socres 44 40 × 17 30 at

Tiepteepheerioidee Streg. On old puts of Printing arges, 1 m.v. Spores 4-celled. 28-35 X 4.8 # - longispora Cam. On rabbet dung, Dann, Sack det. R. F. Cam

menulospora Aperes. On dung of deer from Clear Lake, Man., and of rabbet from

Prod horome, Sack , det R. F. Cam On old cone il log at 1 nov. Man. with socret 60-78 × 13-18 at - mirrors August On deer dung from Clear Lane, Man., dot. R. F. Casa. On dung of

cow and rabbit, Leavy, spores 26-30 × 5-6 a meturners Auctor: On June of recommendation Clear Lake, Man, and of reheat from Beauton your Man and five statums in Suck upt R & Carn. On horse dung, Univ. Man , with

groups Scootled, third sell from the ener enlarged, 45-52 × 8-9 u. -- pilosella Ca o De rantet dang from Saskatoon Sask , det R F Cam (3.94)

- tuberculate Griff. Du dung of horse and releast 1 no. Brok of prothrough long and

tuberro, ate. san .20-150 × 14-15 u, socres 4-ecoled, 28-38 × 5-04 u. Zygogneymella ingigris Mouton) Cam (Deliterina ingigura Montor). On old cores dung.

Univ. Profibros smooth up to 1 turn ligh, 500-700 µ vv. in, spores historiate. 40-58 × 12-18 µ. 2-ce and, with he aline appendages extending from each end of the apore to a weight of 15-25 a. Knowe in Belgium, Engund, and Maurtoba

Acanthostigma (Clintoni, Pick) Sare. On hark of Populus, I v.v. Penthecus setore, spores 30-36 × 3-4 µ, up to 7-septate, i-valine -- Telispar Morg. On bork of Populas, Univ Area c 80 × 14-16 µ, spores funiform, 30-52 ×

- ecopule (Conce & Peck) Peck. On olu wood of conifer, Kenore. Spores 70-90 × 3-4 u. becoming mu tisentate

Bertla moriforms (Tody) de Not - On old wood of 100r Nepsudo and Afaus second Norway

House, Univ. Spores 35-45 × 5-7 µ, fused, 2-celled. Bartiella Ibotronan Morg. On meted deciduous wood, Univ. Asci 70-90 X 7 8 µ, spores biseriate. 28-34 × 3-4 µ, 5-8 septate.

Calcambaggin spiles. A in & Schot I Sare, for described in N. A. Perenemyeuten, 247). On old bark and wood of Papulus between the Profiteen black shaning, 110-140 up dinmeter nearly spherica, then codapsing to deeply concave, seated on a whilest substiller bearing acted up to 50 or 50 or 50. And nearly nearly nearly 25.35 of \$4. Second decharging from the perithecia in lines or manuse connected at the boson, garagelyzes abscut of obscure,

ascospores continuous, hydine, 4-6 × 1-14 a. Chastraphaeria Zatrobarba (Croke & Ell) Sare On old Porolin, Univ. Perithera seione. sparse 12-14 × 4 a, hyaline brocen og pale greemer-brown and 4-celled.

Helmintheenhaaria Clavariarum Dezzo i Futhel Rosellinia Cleverserica). On Cleveria cristate Kesora. The constal stage Scalemenchum Communicación (e.e.) is followed about October by the perfect starr, which consists of actors per theory, accompare universite. continuous become 10-14 × 5-6 s.

Laslouphanela canascens (Prn.) Knet. On dead Connu. stalentfeer and Populus; Univ. Peritheeu, with thick-valled, continuous, brown, pointed hiere, spaces 22-32 × 4-6 µ, becoming browning and 2-celled.

Strauta, Prifer & to Not. Common on old wood of Arr Veguselo, Popular, and Balts, University or Sports of the Xivida, virtual ratio oral cylindrical, becoming expeate Snapplat (Tab) Fuchel. Un-old Poss, sr, etc. Linc., Vertons Reach. Prothers briefly.

Siepida (T. sie) Fuckel. On old Poss, us, etc. (miv., Sictoria Beach. Perithena be appres as in P. Aurasia, the two species may be synonymous.

owina Pers Crs. & cr. Not. Unimmer on oid word of Betala. Populus, Balar, etc., one exception up. Person frontzione, Taov. to Verteria Besch and entimed. Peritheria with a blot next spices continuous, verificing 40–56. X 6-6 µ, with a short narrow prolongation as shown in Berleice i Jones.

aperrosedus (Millin) Cre. § de \times ir. On decayed Popusus, Univ. Perithera overrun with greenish hyphic spans continuous, hysi ne. hipottulate. 19-21 \times 4 μ

strigons. All A Schw. Save. (In old Prim. in, Univ. Bristler 200-325 \times 8-10 μ , and c. 100 \times 10 μ , spores continuous, c. 28-30 \times 4 μ . Taublaness if each 13 4 2 \times 0 in the directions wood. Univ. Spores healther becoming

brownsh and 2- to 4-colled 28-84 (or longer) × 5-8 g.

envered a this brase close vellow-green transition, spores 32 44 × 7 10 μ. 4-relied.

Malanamenta publish-privata Pera Fuchel Reputted by Cheraman 1083 from Elm Park,

Winnouse. Sporement not seen by this writers.

Mollansupasarrow Tachford various States (No. 1972). A re- Qui old 1 tim rulgson, I hav. Referred and the duck of head of h

spece 34 3° × 8 10 a history 2-clord each reflects 2 guitains and Querran morrowren,

Rosellinia ligniaria (first Naterike De branches of Primis in any Querran morrowren,

Hirds Hatt Inv. Perchesia small, branch, and 70 100 × 10 groces 10-15 × 5-7 a.

manufacternia Pro. Surv. Du dd Grana station arm. Nat's and "Tur Vignado, Univ.

Man et Nels Tesait Naak Pretheren eenet met cellbaret duuble-maled, apsera 25-2 X 6-5 µ koorn.

— mediallara Wh. e. Ces. & de. N. et. On. dd. Fresunus, etc., Univ. Pretheren becoming

 medullaria (%) r Crs. & dr. N-1. Dn. 6d. Frictious, etc., Univ. Pretheria becoming emonth, aedi r 100 × 10 µ, aperes 20-25 × 6-7 µ, tenero.
 parasitra ≥ & 1 v. On nd Populus and Synchronorysis conductets, Univ. Pretheria.

momentumes flattened; sporce 9-12 × 5-6 µ.

— pulveraces (Ehrnb) Fackel. On old Popular reconstructs, Univ., Mass. and Saskatoos,

Suck. Asci 80: 110 imes 8-10 μ_t anisomate, space 10-12 imes 7-8 μ_t

Taubcompressa Fil & Ev. On decidants arout Univ. Spires 6.8 × 4.4 j.s.
 Wallreshiella Arousthabiti (Pick) Nor.
 Common at Universal Back on the fruits of the abundant for all other amounts on Paints (Babbanos, also meth of Edmonton, Alberta.

Life hystory asserbled and instrated by Man Dovel og (121)

Zignoella pulviacula (Curry Neer On Pupulus and ad Philos straguescends on the name wood. Univ Sporce 20-22 x 4s. https://doi.org/10.1006/

wood, Vintv. Sporces 20-23 × 4 μ, hysline, 4-ce-led. (satform—sp. On add it map of level-tought terr, Linux Perstreves annual about 2.0 μ 3 μh with a small break, pare × 100 × 8 μ. Se-pared, 2-3-weater sporre hyal nr. 23-36 × 3-4 μ, 7-10-celled, pointed at the result. No description was found to fit this multiveptiate Signoria.

Cerntostomaiaces

Corntectorus brevireatre (Fr.) Hace—On decayed word of Populus, Univ.—Perithesis partially interesed, amouth, spores unseriate overlapping. 14-16 × 4 µ, pure brown

Cucurbiterareae

Cucurb

24-32 × 11-14 µ

- TCaraganas Kara. On heacters of Compans orbitraces, Univ. Anni 150-200 × 12-17 µ, access 20-27 × 9-12 µ. This may be C. classette.

 okongata Fr.) Grev. Cummon on stema of Amerphic fristence (C. Amerphic (Walls.) Fieldrit, associated with Camerosperium Amerphic, Univ., on stema of Colomosoter sp., Univ., ame., a of Eteoprus expentra (Cucarbitaria Caragonae var Shephentias Behm as in Breckie's Fung. Dakobranes, 36 and 477), Souria. Spores munifortin, brown, 20-31 × 9-12 μ . See Weith (Mycologia, 3, 5, 60).

(Mycolegas, 48-60)

Cucurbataris stephula Degrines in Manuscript. On ga la on brainches of Populos boliomistron, Bewert Creck Biotisacia, Nautherry and Pike Lake Sask. Apparently, n, arinisa be the popular. Benular gulls are found in Mantable, but the Conventionals and in the popular

detected, are Dicheran Popula

Otthia Hyparyton (El. & Ev.) Suren (O. hyporybuide Ell. & Ev.). On old wood of -kerArgundo, etc., Univ. Spores brown, 2-celled, 10-14. × 43-56 µ.

— Symulopatram Ell. & Ev. On trum of Soundinnarran econtation. Law. dat. Breschle

 Symphoricarps Fil & Ev. On targe of Symphoricarpus occulentatio, Univ., det. Bressek (see Fungs Dakotenars, 98). Spores 20–25 × 8–10 µ, hyaline at first.

H bette by requirements

Amphiephaeria falbomaculums (Schr.) Cooke. On old descripted branch of Popular Time. Penthicle on M. Le area, sports 8-14 V 4-5 c. https://doi.org/10.1001/

Univ. Pertherion on m, the areas, spores 9-14 × 4.5 μ, brown, 2-ccline.

—applicants, ης Los. & do Not. L. Common on numbers of bords of 1 ν. η ζευννικε πόννοσησε,

Univ. Byones unequally 2-cclled, the upper cell weng the larger those 8s logo 9-741 not
the lower evil as stated by Louke and by Jada. Pertha (Ann. Mircel. 2, 332) makes that

npecies thir type of low new genus Kiriobaccancilis.

— humphaserica (Cooke & E. F. Pouce: On bark of dead Populus, t. + x. Spores .2. 18 × 6.8 µ, larger than g. vro in Y. A. Pyrosoinvertee, but & r thus at Fungu C. namb. 18.8, un poplar — unernatum Ell. & F.v. On branches of 10 tour belance. Viet on a Beath. Accompance 22: 28 ×

8-.0 g. Seclied, brown

Telebrespore elevispores El. & Ev On drad branch of Jeer Negausio, Univ Spores murifurin, branch of Seven Negausio, Univ Spores murifurin,

fulgurata Ell. dr. Eν. On decorts-sated branches of Populas; Univ. Spores id-16 × 6 μ, hereon, with 3 or 4 reces septs and finally 1 or 2 longitudinal septs. Insecurs (East 10th 4 to Ca trays of Salar so, 1 Manthrolt, Resk, reporce brown 20-26 × 10 m for the control of th

8-10.p. with 3 to 5 cross supta and assault) one long turned seption, a form perhaps belonging to this species on Principles. They are presented to the species on Principles.

rengratega Ell & Ev On stend branches of Faces, Love Spores 31 44 × 1, 12 \(\mu\) with about 7 cross septa and several degitudinal sopta.

Additional Cor. Furths. Do hors or your def Paculius on Concess appropriate and Concess and Con

ansarsona, Lake of the Woods, I mr. Spores brown, 20-30 X S-12 µ, with about 7 cross septa and several longitudina septa. Populius, I mr. Spores brown, 12-18 X fi. µ m th.

population E. G. S. V. C. Georgical Propulation ("" "") "payment ED. & Ev and T. Amarouse ED. &

Populus tremsdostes, Univ Spores 15-29 × 6-8 µ
Lopisostematscone

Laphyllum compression (Pers.) Sees. On tirus of Femilia, Care. Sources 20:28 × 7:8 a.

Lophidlum compressum (Pers.) Sace On trigs of Populus, Carr Spires 20-28 × 7-8 p., muriform, between

p. On trianches of Sprapheneorzou occidentals Indian Head, Sack Perithesis or wood or

remains of bark as energous $20.27 \times 10.12\mu$ commonly with seven cross wells and one or two foughtuland walls. A Lophud-am $\cos N$ occidentes μ has been found also by Breneids. Lophusaphaeria pulveraces $3\cos N$ on a full band of Pleta a) in the woods, I are "Spores."

.6-23 × 5-7 µ, 2-celled, somewhat constructed at the ceptum.

Lophicstoma A-undirels (fr. Ces & de Not. On del stems of Phospatics constants, I also

Daught and Vectors Bauch fails. Stores subdensitions in their fused, 28-32 × 6-8 µ.

mostly Section

rootly Section

 presentersum (Lusch) Fuckel On twags of Symptoniumpos could while I not , det Dr. Brenckle Spores 25-28 × 5-6 µ, hyaline then brown, for a long true I-septate but finally with 3 weets, monthed at the ends. Lophicatoria Tprominene Peck On terigo of Corona statonifers, Univ. Spores c. $20 \times 5 \mu$, rather numbure approximation Karst. On breach of Acer. Vegando, Univ. Spores $22-24 \times 7-8 \mu$.

sexualestum Cooke On branches of Salix, Univ Spaces 30-35 × 8-9 µ, brown about

triagatatum Perk. 1-ry contract on branches of Lee Augusta, Pragram panagiaman, Popular app. Ross are, Baker app., Neuposcorato, accelerato, 4 the relation of regular and process and recognition of the suggest produces are partially numbers as the word, agrees brown, usually Samplate in Eq. 22 of T. p. Perhaps the same at professionation of the processor of

Munarahaerellacese

Mycosphaaralle chimaphilina (Sec.) House (nr./phorrila Chungahilar Eli, & Er.). On leaves of Chungahila mblain Victoria Brash. July Aug. Boats dark, mmil, orbincusz, printhesis amosts, spores 10-12 % 24 3 µ. Il seuge possibile that the two names given above may be ayonymose. — Pragarias Clul. Ladau. Constitution on our collected. Bes. Ramularia Tuissant].

Greenbarine (Fr.) Ludau, See Septorio Rébus.]

Therefore the See Septorio Rébus.]

THE Common spot on Survacean prepared in eastern Man, may measure to this specimen. Only precede, with spores $3-h \times 1$ μ , have been found. Thalters (PD & $h_{ij} \times 1$ Indian. On leaves of Theoretical discuss, Count and Univ., Man.,

Mardorell, Sock. The prethrens occur on white sends on living leaves, some maturing about August, spores 11.14 × 4.9, 2-celled

Pastdopies Trifolds (Route) Petrus (Sphormans Trifols Roste, Piesephornisins Broomses.

Poliners). On seawer of Medicage an ico, Houndon Marc, coli. I. L. Connere, of Prifeirson Agéridans, Canora Sask. See Hordal. Cornel Univ. Memor, 130. Both collections show a few young ages on neares of the turrent season.

Sphanerella Astragall. Curry. Corde. On Ogarous Rev., Long Pent., Man., on Hudson's

Epiphearette Astragani Currey, Locare On Orgánica Helia, Jong Pants, Man, en Hodons Bay, real W. O. Gassow Jane So. 1922 (Can. Plant Decease Heave Reet 1923) 114, 1934). Spec mess at Ottava and in the Districts herbarum. This good the following two species belong an Mycospharedle, but have apparently not teen transferred. Tignobilis Asserts On beaver of Humanities action. Murrater Rost: Peritheria 110-130 in

in duranter, are squarmus 40.59 × 10.12 n, spees 12.15 × 4.3 µ, hys ine, 2-colled, scarce, resultanced. This file fairly was the lumps described on Disposantesias (Avrs) alpins in Greenland on the Control of the Cont

Pleaspornease

Carlapora manifoldensis Dennius & Hoby (71-72). On back of dead trags of Lessiera constance Birds Hill. Perthera enumeral membranesis 170-190µ, spores brown with a hyaline puried of at acrels no. 38-38 × 5.7 a. or with a total of 68 cells.

Dilymalla applanata Need) Such Oceanousl on stems of Robus visious var afragons in Man. The spor-bight of nephrires is not senses. The Phomostage has been seen, but perthress have not been sough? Auch Phytopath. 21. 247. 287) has shown that Mycorobused related Jones in a synonym.

— canadanasa ži.l. k. Fv. On dead limbs of Populas and Salix, Univ. Sporra hyaline, 20-25 × 8-10 µ, 2-celled.

In back of Fife reference, Univ.

representation of companies of the superior of t

30-42 × 4-5 g.

Didynellibs Fields (Deam) v Hobn. On overvantered leaves of Iris heavily infected with

Heterostrone to Trodan Hood. Basic. Ancospores 2-celled, Iryaline, 18-22 × 6-8 g... These

spores are considerably smaller than described. They were assumed a minimum. The fungus, however, may be D -possible poor McWhorter (Phytopath 27 136).

- Didysmanghaeria decelerane Rehm. On dead twigs of Symphoscorpus occulentairs, Univ., det Brenckle: who considers it an Amphaphaeria, and lata it as it decelerans in Micrologia, 9 207. Byeres booms, 5-14 × 6-50.
- diplospora (Cooke) Brhm. On histories of Cornas stoleration. Bora sp., and \$1.00 rations,
 Third Biports 9-12 × 4-4 p. A first on Querrea moreourps has spores 8-10 × 5-6 p.

 cookedwrates (Fr.) Factor, On temporal consess and 1.0 press. Levy. Biogram
- 36-15 X 4-6 ja marita del de l'extra la Perrocuyerte 732. Or leaves of Rubus interna var seusce manitalemala Ell di lev., N. A. Perrocuyerte 732. Or leaves of Rubus interna var seusce l'acceptable by J. Dearroes thet 3, 1892. The sarvant known pounted reference to a Mantolana fungua. Apparently only the type qu'elle parties de l'extra d
- u known Leptasphaeria avanaria G. F. Weber. On frew solves, together with Nepress Arease,
- Branden, Man. and Saskatoon. Suck., on old stubble of terus sorres, Int on Head Sask.

 TBarbaradia Rich. On touge of Herterus response, 1 no. Ares 70-80 x 1, 12 µ, approx
- 18-26 κ 5-6 μ, usually 6-celled frown. Reported gloo from 1 on (8-355). Thereastle Ed. & Ev. On trage of cornuc absorption and "photosise Opolous, 1 my Consistentiations Force i Sacr. Barely seen on capital of the barely advantage. Line of Robots and Artistation for the Artistation for the Consistential Conference of Public Artistation and Consistential Conference on the Conference o
- Man, Saskatoon, Sask
 conglossis Fil & Ev Common na Saha away the Hey River Spores 26-3a × 8-12 p.
- brown about beelend.

 A form with mentioning perthereal wal a selection of a selection of the selection of t
- culmiffaga (Fr. Ces di de Not. On dead stems of Hermon socress. Indian Head and blacks toop. Back. Ontselv prominent, act e. 100 μ stag, sports 2.2.35 × 4.6 μ, 0-10-relied golden in color. The spores are rather short for this spories.
- 26 coor "The appress are rather storts for this appends." Teulersserum Aueren. On dend herbaceous stems, Betens Rave. Spores. 20: 26. %. 4 μ, 4-oelled, brown.
- -- deallolum Pero de Nut. Common on dead berbaecous stems, including Aster, Concordian septem, Description pire/lwom. Historius annua, Northus arenas, and Urica septem, Univ. Man. on old Hestorius annuas, Northus arenas, and College arenas.
- Variable: Expressly with yellowish-brown apiece 20:20 × 4-6 js. 4-ev-led, alightly constructed at the apple.

 Tensessedures (there & Curt.) Ell. & Ev. On dead bertaceour stems, Univ. Perithesis.
- erumpret are: about 120 \times 15 μ , 8-spored, appres long, 40 40 \times 4 μ , commonly 9-celled and sometimes with the fourth refl sweller to 6 μ wate vellowish become Taustanese BUI & Kellern. On an idd board in the woods, burds 400 Moore about 27 \times 6 μ .
- Tableans Ell & Kriferm On an old hourd in the woods, Berts Hall Sports about 27 × 6µ.

 Sectiled.

 presupposizables Sect. & Sport On sired afrom of difference is now. Poul'homome Seak.
- on dead hertaceous stems, lysteria Beach, apparently this apects in its devict tension would. Birds Hall, Man. The pretthern become "personal by rext apings priors 20.24 v. 4.6.p., e-cellen semestimes with the seriond evicts user. Perhaps asks a form of L distortion.

 —eventual December 20,048 v. 71.71. On dead interns of Cension of the O₀, In v. Per therea.
- in the certex, erunsperst, moking the bank raggine are 115-160 × (1 1 µ, spores berein, 2-6-ceded, donastristed, 18-27 × 6-9 µ.

 subsensites (Cooke & Feek) Race: On dead stem of Senchus arregion. Line Moscoe e.
- 20 × 6 μ. Perhaps only a form of L. dolodure.
 Metasphaeria anisometra. Cookr & Hark.) Sare. On targe of 1 shurnum pubrecess, and on
- Metasphaeria antaometra. Croke & Hark.) Sace. On trags of 1 sternum puterersa, and or decayed berbaceous stems. Univ. Sporm 18-22 × 5-6 μ, hyslone, 4-celled.
- energians Ell. & How. Common in the back of Corylas sp., Univ. The Fungus matures in
 early spring and 100-100 x 19-27 p, spring and 10-35 p, 4-relied.
 energian Olare & None State. On treat 1 any 1 in y. Asset 0.72 x 20 10 p, prings 22 24 x
- 4)-5) µ, 2 4-celled. W constrains (Berk & Curt) Sacr may be the same.

 Dearmonal Bubak. Common on his ng leaves of Soutez Aerbrien, Univ. Spots pale, border.
- reduits, perithens, apprillous, pours 16 24 33 11 js, atout 4-realed.

 Thysiologies face: In our straw of Tritacum, 1 no. 8 perce 28 30 x 3 -4 js, 7 8-celled, annex mess with the third off sendler. The process become path soon not and the fungus about d probably to called Lepsaphores hydropen face: as a done or Oudersanter Enumerat. Syst. Funguergus, or it may be one of the averail other species developed on granter.

- Mataaphasein Islostegn (Ell.) Suct. On dead branthre of Pyrus baccosts, Ribes floridum, Rose up and Rubus storus, Univ. Spaces 14-21 × 5-7 µ, usually 4-celled.
- Polygonia agrittati (Schw) Ell & Ev On old stema of Polygonian, Univ Spores up to
 18 µ long, becoming 4-coxed.
 course in Enter (1 14) On dead branches of Querrus weorecorps, Univ Peri-
- there carbonous, immersed in cortex, ce almost in perfectal if on the bare wood, aget 40-130 × 12:15 \(\mu, \text{ species 24-30} \) × 6-8 \(\mu, \text{ hys are to pale amber, 5-6-celled.} \)

 Do two got of symphotic argon corected only 1 have \$\text{ Species 25-33} \times 4\(\mu \) at first 2-celled.
- ap On twope of Symphorecarpus occubendire. Print. Spores 23: 33 × 4 µ as first 2-ceiled, hecoming 4 ceiled. Dr. Welmmyer written trust it asserts close to M. Arabous Johans. Ophisobolus accuminatus (Sowerby Duly). On stead stems of 4-riemans because, Indian Head.
- Back, on fastilitya coccusca, Roblen, Man. Spores 75-,05 × 2-4 µ, brawn, 10-16-ecited, sometimes with one sell man the contre availant annual little as a contrel like properties of the properties of the contrel little as a contrel little as a
- anguilildes (coke) Saco On old stems of Herodovic Instrum, Low Spores 100-120 > 3-4 µ pair hower, often much curved and bearing a so-ollen ced at one and
- fitaporus Cooke & ED | Sare On old stems of "Grandrias apurrous, Ric Apathe Pertihedia natione, about 60 µ mile, and exactive, 85-105 × 4-5 µ, 8-apored spores nearly as long as the next-less than 1 µ thesk
- the next, rees than 1 p trains at the state of the property of
- multi-ryan on recent of the presenting year opened year-interiors, to 100 X 2-5 p.,
 multi-rythie
 grammints Sace Common on Tribour scattered in Sack , not so common in Man, also found
- **Personal Section Conference on Proceedings of the March 200 for the March 200 for
- porphyragonus (Tode) Succ. On dead stems of Circless orresse and Melilotus, Univ. Spores.
 90-125 × 1-2 µ
- trichesparus 121. dt hv On straw of some cereal, Univ Sporm very narrow, 60-100 or longer × 1-1 μ
- Phormatospora Rosae Relim On stems of Rosa sp., St. Norbert, of R. Matendo, Univ. Ascospore hydroc, unagutulate, 15-18 × 8-9 µ. Type collected in North-Dakota (see Brenckle, Fung) Dakotensee, 260.
- Physialospora surantia Ell. & Ev. On leaves of Astropolus odissepsis, Dubuc, Sask, of Agossiva, Biggar Dara, Lipton and Saskaton, Sask of Agostivasius, Salkeriand Saski—magastorna (Fech) Sacc. On sving leaves of Astropolus Talpsivas Bension Man, of A.
- meagastorms (recs) Note: On viring traves of Arrivgeous religious Bransion Man, of A
 businity, Yorda, Sank Sports in the Man, collection (8-20 X 8-10)p, as in P securities,
 but on living, unbuskeered leaves.

 Pleaspoor a Hartensand Berl & Yogi, (Agnorabserie stravious Cook & Hark.) On dead stems
- of Browns surrous Saskatore. Sask. Asc; c 75 µ long, spores 0-crited, with longitudinal septa finally dividing one or two central cells septa finally dividing one or two central cells. Berbarum (Pera), Balsesh. On dead branches of Sal.s., Univ. Spores brown muniform,
- barbarum (Pers.) Rabesh On dead branches of Sal.x, Univ. Spores brown manform, 25-42 x 8-18 µ. Reported as "common everywhere from Greenland to Menico" (N. A. Pyrenessyentes) but not found to be common in Man.
- reseguisthes a Trucy & Earle. On dead leaves of the current season of Achilles millefolium,
 Plot Mound, det. C. Churo. Accompanied by the Alternaria state
- Past Mound, dek. C. Chupp. Accompanied by the Allernaris stage.

 pastulant 53: 6. Ev. On stema of Corwas stelenylers, (miv., probably this symbols on branches of Ameliouchier ninylohy, St. Norbert. Spores 19-25 × 9-11 µ, with 5-2 cross.

sents and 2-3 countradinal sents.

Pyrenophora Broosi (Diedicke) Direchiler — On dend overwindered scaves and stems of Resease mirrors, Lucy — Man. Sessations, Sais: — The Sesse specimens intinature; the Man specimens with brasky pertibease bosing journ sessepores 92.75 × 24-20 µ, with 3 cross septa and 0-2 longitud nal septa. — See Helienthosporture Braves.

- 7culvescens (5r) Sec. Recorded with doubt on dead stems of Meidetus, Univ
- rappea Desmics & Bisby (7) 75) On an old stave of a barrel in the woods, Univ Spores

24-35 × 11 15 µ, constrated near the modile, with 5-7 cross septa and longitudinal septa across must of the cells.

trichostoma (Fr.) Sacs. On stubble of Triscom assisten, Melfort, Same.
 Trittei-repentis (Dudicko) Dezchaler Pertileten of Helmathapperium Tritici-repentis

Norway House Spores 12 4 × 3-4 µ.

Spores 35-50 × ,2-90 µ, muriform

were extincted on Triticum contenus by J E Machatek at Assunburs, Sask., and by P M. Romonods at Inc.an Head, Sask.
Vanturin Economista Brice. On leaves of Faccasium contribute. Norman House, Man. Crocked

Venturia Fearmanta Fuge: On agreem of Factoristic encountry, Footway Eleman, Finan, Coronaro River, Saske. Both specimens immature.

— Dicklaid (Britz & Broczne) Cos. & de Not. On leaves of Leisonece berealis var unercuosa, Berens Rever, Minnik, Victoria Bench. Mature autompores 12-6 % 4 µ, brown 2-culled,

somewhat constricted

— Caulthorias Ell & Ev On Iraves of Gaulthorn procumbers, Minaka. Spaces 2-celled,

Margoriaceae

Manaeria compurenta (Waltz) Suec. On total branches of Prunus co., Ucav. Reports large, To-80 × 14-18 µ, 4-celast, breven. Pershapa should on referred to M. (represenve (Todo) Pr. — plannagers Ill. d. liv. var starsapara Dearmes & House. On branches of Viderson Ogaslav, Urav. Asrs. 4-spored, spores 168-50 × 18-18 µ, 4-cellec, hyaline, constitues sectomag browning.

 Pyri Otth. On branches of Assolution and Invision, Univ., Main and Saskatoun, Sask. Astoapores 52-75 x. 1-10, p. 4-relied traves, v. th. 4-6 large gatter. It does not seem possible to supposit these solutions into M. Pyrs and M. sensitoria.

Massarialla Currenyi (Thé): Saco: Common on hunches of Thés exercious; Urv. The sacoepore are 36-60. ½1-616, sach with one carge and one straft, 6ct boven, surrounded by a goldinous enverope when levels in water. Spheropass devests (p. 1) is found associated, "Plesonmassaria startal Ghele. Br is Saco." Constrain unselement on Amartha freshoons! Univ.

/h.......

Gnomenia ulmas (Schw.) Ibids: Common or leaves of Unius exercions, Univ., Man. and Indian Head. Sask., sometimes in, arious. The nature accessories on fallen baves in the spring have not been acquist.

Gnomeniatis Corph (Batch) Succ. Common on leaves of Corphs unserdoms in Man. and on

C restrote in Main, and Sank

- Coryll war elements Described & Bistov

The circurate form on smaller spots on Corplus

restracts a next remners. How, each search

Valencens

Arrthostoma 7adustum (Cooke & Peck) Saco On dead twigs, Unov.

melanotes (Brrk & Broom) Size var Symphoricerpl Brencian. On deed twogs of Symphoricarpa occidentalis; Univ., Marth, det Brencise (see ann Fungi Dakotennes. 636).

13-19 × 4 0 µ.

— microsporum Karst. or posibly A causions Feek. On old desidenus word, Univ. Speces.

6-7 × 9, acading on the criticals.

Authorstowella 'pholidigens (Ell.) El. & Ev On twigs of Thuja occidentals; West Hawk Lakes. Sporce 9-11 × 4, b. form, unsectate.

- Cryptosphaeria fisalcola (Caoke & Ell.) Soc. On branch of Amelanchur alugides, Univ. Acc. 7.10 a vide; spores 6-10 × 1.2 a.

 speciallian. Para 1 Nov. In hard of dead branchus of Familias recreatesies. Univ. Man.
- papuline Pers) Succ. In bark of dead branches of Populus trenslosies, Univ., Man., Indian Heau and Sackatoos, Sack. Age: < 50 × 8 μ, spores 8-10 × 2 μ
- Dispertise albecarnis Ell & Ev. Farty common on Cornes stelesafree, Univ. Det. L. E. Wehmerer, who prints not a his book on Disperting (17) that the largest of a Leptophseria.

 Amorphase Ell & Ev. On dead Amorpha functions, Univ.; det. L. E. Wehmerer.
- Crutang (Curro) Nyteshke On Iranches of Critoryus depowersys, Indian Head, Sinkly, cell B. J. Salkare, det 1. E. Welmryer: "Sporter", 40-18 × 8 µ, constructed. Dr. Westinsyer writtes that this is the first American codection morem to b m.
- erea Nitachke On branches of Corner stolengies, Univ Probably present also or several other houts.
- Prumi Ell & Ev On branches of Prumu signi. Univ 12-15 × 3-4 μ.
 taleola (Fr.) Saco. On trugs of Querral restrictings, Univ. June. Acts 8-sported universates,
- measure (**) reserve (**) to livings or quierral mercenerges, in v. ours. And deploids distincted, if 17:-200 v. 15 µ_s sparred 22 d. v. to 1:2 µ_s, with a colorise, historial appendage at each end, and 2 or 3 leteral appendages accounts to congret from the fermion. The is the first account American collection of this appendage accounts to congret from the fermion. The is the first account of the property of the propert
- tassetta (Pers. Reies: On twips or brancars of Balox spp. Univ., Man. Proufbrenze, Bask. Corspecious because of the wart-ske retustromats, sporre 45:55 × 8-10 µ, constrated at the applien, sometimes with a short Navier appending at each end.
- stricted at the orption, sometimes with a short livraine appendings at each end.

 Tubarculean 4.5. | Since: On the ga of Continual Principles, Univ., April: 14.16. X-6-6µ,

 Vibural Destroon & Baby (71.76. see also Webmayer, 17.23). Type collected on

 1 Shrusum Leritops, Law: Apr. 18, 1995 several other effections also on this best and Y

 Opolos, Univ. Known also from lows and New Jessey.
- **Sutype Achieri** The Rather common or branches of Populss and Salva, 1 to v. The word is blackward by effice stromats, spores $6 \text{--} 8 \times 1 \text{ pc}$.
- is one zeroes of your strongers, apores 6-6 × 15 µ.

 Reveriescens (f(off) Tal. On an ood stave of a barrel in the woods, Univ., May Stronger of the control of the woods, Univ., May Stronger of the control of the woods, Univ., apores 6-6 × 1-11 µ.
 - lata (Pers., Tul. On her's or wood of Populus trenutoudes and Salis Univ. Man., Indian Heal State. Produces extensive fruiting areas in the back, sometimes on the wood, spores
 - Judibunda Sice On bark of Pyrva bovolo, Univ Ostroles suleute, spores θ-11 × 24-8 μ, pole greensh: Perhaps this specim haso on Acter Negundo.
- millians (Fr.) Sure. On have u sed of 1 thursam Leatery. L-ve. Spores nearly hyaline, T. 0 × 1.13 µ.

 Eutropila Tangulosa Natebber Sure. On fallen hearth of devaluous world. Senors. 6-8 × 2 µ.
- respective to the property of the state of t
- remestering principing (Al. 2019). On higherton of Quartus more corrus, Conv. Ann. 125-150 × 12-1-14.4 (Septime of princip 25-28 × 10-12 pt. bronco with about 7 cross septa and a longitudinal septum in each division.
- tuning repluin in each division phonospore. On transition of Acer Argundo, Cratargue, and Populas, Univ. Spores 36-42 × 14-20 μ. marform.
- princeps Tail. On branchin of Querrax macroomes, Univ. Spores 30-40 × 14-20 μ, multiseptate and munitum. Leonic often with a hysbine appendage from one or both ends of the spore.
- Thyridium Tambielum (Coute & Ell.) Bace. On branches of Utrus aversons, Univ antiquum (Ell. & Ev.; Sace. On trupt of Ribrs foreston, Univ. Spaces 12: 20 × 6-8 µ.
- manaquam (E) α Ev y case. On irage of Robes forwhise, Liviv. Spures 12:20 × 6-8μ, hrown, with 3-1 cross expita and 1 or 2 longitud-oal septs.
 Teamadeuse Eli & Ev On old branches of Cestangus, Univ. Fits the description of T.
- Considerate, except that the specime become brown in branches of Aluss incode, except that the specime become brown in branches of Aluss incode, Colostrus wordens, Corns service/or Corpus serv

Besseys, Ross sp. and Ulmus sp. in Nesk. Spoors variable on different hiele, large for a Value, 14-25 × 3-5 µ in age with 5 source, 4-source age with larger spoors common.

Value borsella harst. On brancies of Sales, Univ. Nigoros c. 0 × 2 μ.
— elasta Fr. On trace of Promus m., Univ. 14-18 × 3-4 μ.

— cornina Peck. Or branches of corner nated own, Suskatoon, Sass, of C scolonifera, Univ.,
 Man. Ascerpcive 14:19 × 3·4μ, as: associated Cystospora has spreas ε 6 × 2μ.

- coronata (IIOI') Fr. On twips of Corona nationaform Univ. Sporre small 6-8 × 1-14 µ

- fresining Pora. In bark of branches of Fractions prinsiplication, Univ. Accespores 12-19 ×

3-5 μ, associated Cytospera with apures 4-6 × . μ Issuestatems (Pres.) Fr. Common and associations apparently .uμ.nous on branches of Austinution also find Cotoscastes app., Cratacque ap. Prunus app. Pyrus ap., Linux and

Morden, Man , on Prumae spp., Saskateon, Sask. 9-14 × 2-3 μ Thuccostomordee Peck. On branches of Cervius sp., Univ. As deserbed, except that the mores are celly 19-12 × 2 μ

Thentsparress Ell & blok On old ata as of Menaperse on considence, Univ. Immature the Cytospons along with apores 5-7 X 3-13 µ. Brown the Cytospons along with apores 5-7 X 3-13 µ. Brown the Change of Propulse trensiteder. Univ. and Victoria Beach, pre-entitled in the Cytoria Beach, and the Cytoria

Man, in P. balamitéra, Ind as Ilraid Saik. The relate stremata become composições a tre laris, long transfers concertiones bearing the fangus from end to end, receive mostly 7.9 × 3.4 µ. One collection has sequence and with appear 16–18 × 3.6-q. — associated Cytomore has white a large transfer of the property of a relative state of the concertion of th

speces 5-7 × 15 µ

- basiciona (Pers.) Fr On branches of Salig. Daiy

- Symphoricarpt Rebm. On branches of Namakoraranas ecodowishs, Co v., determination

ver-field to Dr. Bernetile, who collected the type in North Diskota (see Lungi Discoleroses, 150). Spores 12-19 × 3)-44 μ.

- translucers dr Not. On twope of Salva, t niv. Mar. and Saekatoon, Saek. 10-15 × 2 μ.

Valsella Laschii (Nitchho) Sare. On branches of Pranor Recorpt, Univ. Acc. with 16-24 aprires: sperce 8-12 × 2-3 μ. A Cytospara stage present (Myvologia, 18, 253) has aprires 4-6 × 1 μ.

Magnetizationesis.

Meethennessaceae

Cryptospore kernsensis E. d. bv. Ot trags of Nymphonorane contentable; I.o.v. This species has been ealled Carregal Symphosicary (Rhein) Ferral and electricated by Breise (4 mag. Dikkricevor 5.43). The species are hysane or nearly so, 17-25 × 6-10 µ, 2-celled sometimes becomes 6-cell.

Cryptesporella anermala (Perk) Sect. On living stems of Cury, us sp. 1 biv. Asc. c 45 × 15 µ, spores 8-12 × 4-6 µ. Soziatimes rejurious to hone; bushes.

Lantaginis (Ell. d. b.y.) Brinn. On to go of Vibranius Lesiops, Univ. 9-12 × 1-2 µ. Melancania decorrantas Ell. On transfers of Estate oble ver. properties, Votoria Beaks, Jun. Associated with Melancania parallims, Lyo. 2. The accompetes are 18-22 × 8-10 µ. Zeiller, busines, but remembative that true brinaria.

2-celled, hydron, but presumates they turn brown.

- marginalia (Peck) Webmever On branches of Alnus income, Berena River and West

Hawk Loke. Spores 14-18 × 6-7 µ, 2-celled, prairies.

- occults (*ucwi) Sace. On branch of Populus tremulocies, Univ. Parithreia submerged in the bark, and 135-150 × 40-20, accurs 0.4-6 × (6-18 µ, 2-ce)ded, with a grindrous

ehrath — theistode (Fr.) Roce. On branches of Alma success, Herris River. Spoces with an appendaged at each end wives young, finally unappendaged, 2-celled, 32-52. < 7-1, μ.</p>

dage at each end when young, finally unappendaged, 2-celled, 32-52 x 7-1, p.
Valacria mastiva (Tode 'c.w. & de 'n.t. On branches of Queeces successory and Populsa sp.,
Un.v. Sporce 16-22 x 9-11 p., hown, 2-celled.
- musculdas (Conke & Perck) Saco. On branch of Almus monne, Norway Rouse.

10-14 × 3-4 µ, brown.

Dialrypacese

Distrype albegruiness (Schw.) Cooke. Very common on branches of Corybus spp. consistnal on Cratacgus sp. and Prassas regimence, slong the Bed Raver in Man., on Corybus real-voto; Baskatonoo, Bask. Bocces brownin alliancion, 11:46.2–45.

- Dakoteusce, 100, for a specimen from North Dakota - Testerostoma Berk & Curt. On faller decidadus branches ("Viburnom, etc.), Univ.
- Stroma woute written, entude stellatesy eleft, spores 7 9 x 24 3 a. - Thulbata (Hoffer a Fr. On old wood of Peening Time 7 16 × 3 a
- Celestri Dearness & Buby (7, 78). On dead atems of Colustrus scansteas: Univ. Spores. mostly 11-13 × 24-3 µ, vrllos-brown
 - · hochelagne El & Ev On old Acer Negando, Ulmus americana etc., Univ. Stromata constitutions, retores 8-12 × 2-3 at greenels.
 - atterna (Heffin.) Fr. Very common on branches of Amelianches situations, Being after var. warranters, Crutacous su., Prunus sp. Parus baccala, Quercus macracarea, Ross sp. Salix sp., Norway House southward in Man , on Prions melsnecarps in Sask. Perhans a composite species. One striking variation is in the occurrence of strematic outgrowths which push up the dead bark above the fungon, this variation is usually found on oak sometimes on
 - apple. The spores are mostly $7-10 \times 1-2 \mu$. triaticha de Not. On dead stems of Rosa: Univ 15-19 × 4 u.
- turnida KI & Ev On branches of Assorping fractions, Univ , agrees with Fungi Columbiana, 1240, on A fruitceen. 9-12 × 3 µ.
- Distrypells deporate Niterblu. Common on bounches of Brinds other papersfers, Norway House I are restured. The whote hard is descrated by the high community stromata.
- and polymorous, mores 4-6 × 1 a - ?discorden Croke & Peck On branches of Viburason Opulus, Univ. Asri 200-120 x 11 13 g, polysperous, spores 5-6 × 1-14 g
- Frostii Peck, prehabiy. On branches of Corvins an., Univ. - freegularia Conke & El. On branches of Paras baccara, Univ. Spaces 7-8 × .-. + s. a.
- aso; with long stines. - missourieness FR & Ry Common on branches of Corydon, Univ. 5-6 × 1-14 a.
- placents Relig. On branch of Above sporns Perers River. Compared with a presumen determined by Rehm Spores 3-4 × 4-1 p
- guercine (Pers.) Notechice On branches of quedanoher aintidas and Crategus ap., Univ.
- Melamananantacene

Botryosphaeria fuliginosa (Mong. & Nest.) Ell. & Ev. (armsu Ell. & Ev. N. A. Pyrenomyestas 648.) On dead branches of Francisco personicamen, Prunus ap. and Vita sulping, 1 my

Xularioouse

- Daldinia concentrica (Bolt.) Ces. & de Not. Common on Abus incasa and other doudueus branches, Berens River to Univ. Stepmata purelies black to brownish, spores mostly
- 19-14 × 6-7 = grandia Cold On Populus and Pyrus, Scan River, Univ Stremata often very large, dallblock, opores mostly 1,-,3 × 7-8 js. See Ann. Mittouri Bet. Gard. ,9 45%.
- eccidentalis Child On Batula sp., Fish Lake and Saskatore, Sask Stremuta bronte black, appear mently 12-12 × 8-9 n
- Hypersyless fasteum (Pere.) Fr. Common on Alrus iscone. Amelanciner eleticles. Corries etc., Valuraum Opelus, etc., Clear Laire, along the Red River, to Norway House, Man., and oastward, Kategwa, Sosk
- Howeignum Peck On back of Populus, etc., Kennya, Univ.
- Morses Berk & Cart. On Alnus (none, Purse becosts, and other decideous wood, across Magazoba. - multiforms Pr Common on Satula alba var manurifors, Norway House to Victoria Beach.
- as intuination (Kladrach) Cooke Abundant on trunks and branches of Pomilar trenslander across Man and in the "Park belt" of Sask. It girdles and kills trees of all ages, particularly those more exposed at the edges of the "nonear builds", in smaller groups of trees ten per cent may be affected. The fungus finally produces its stremata on the diseased areas; those are proposte until old.

- Hyperydon rubbelensum (Para.) Fr. Common on dead Pumber. Tibe and other detailment wood along the Red River. The effused strottata roast through several bright shades of .ed. and recrule before muturing
- serpene (Pers.) Fr On Populus, etc., Univ. Effused over wood or stumps. Nummularia rependa (Fr.) Nitschke. Rather common on boundles of Ulmus americana,
- Univ 10-13 × 4-6 µ Kyleria ?acuta Peck On decayed Saxx etc., Gantia. Apex scute, sterile; sporce 15-20 × 4-6 μ - cornu-demae (8chw.) Berk. Common on decaying wood in confeccus areas in Man. Stromata commonly branched, spores 15-22 × 4-8 u.
- Hypoxylon (L.) Grey On detuduous wood, Univ. LABOULBENIALES

Laboulbesia flagellata Peyritch On Elaphrus ap., Beutak, Man , Roche Peroé Sask , det Thaxter from speciment found by H. J. Brudis on an insect collection by J. B. Wallis. - Garinadarum Thaxt On obstra of Gurinus luceus, Winnings Collections and determination an above.

BASIDIOMVCETES

SPOROBOLOMYCETALES

Bullera alba (W. F. Hazvia) Derx (Sporobolomucce office Hazma, 71-80). Type isolated from rusted straw of wheat and eats; I nov The colonies are white to yellowish. Dern (Ann Mye. 28: 19) exected the senus Rullers in recognition of the studies of A. H. R. Buller on Sporobolomyces (52, vol. V) Spaceholamanes means houser & you Nice. From stray of corners Pary , from a loof of

Numerham adorsy, Konora, sielations by W. P. Hunns. The colonies are ning. This and the following species are discussed and all-atrated fully by Buder (82, vol. V) - sulmanicolor Kluyver & van Nucl. Found by Dr. Hanna as a contamination in laboratory

cultures at the Demisson Rust Research Laboratory Winnipeg

USTILAGINALES Cintractia Caricia (Pers.) Magn. On Carez subtrodes, Nasoby, Sask., C. gunsomes. Macdowell.

Sask . C. Jimom. Laku Waskenru, Sask . C. Jejiophilis and C. obrustin, Saskatoon, Susk . C. endutricus, Lane Weskersu, McKarus and Prince Albert, Stak , on C Teometics, Norway House Man, and on several underlifted species of Cares in Man , including one at Mile 412 on the Hudson's Bay Raiway - externs (Griffiths) G. P. Clinton. On Cover Scifolso, Prud'homme, Saskatoon and Suther-

land, Susk - subjecture (Kirn.) Mage. On Carry Investigate, Suskatoon, Sask., on Carry sp., Univ.,

Man Desagnation Alignment in (News) Corpu. On heaven of Alisang Plentenes-societies. Describes. Poplar

Point, Unry - deformana Setched. On stems of Sogistario latifolius, Univ. Transferred to Dossanstopne

fures J. J. Davis. On leaves of Santtaria latifolia, Univ.: verified by Drs. Climina and

Zandel Intermedia Setchti. On haves of Segittaria Istafolia, Norway House and Victoria Beach. Man : on S grafolic, Pike Laxa, Sask

Martinoffiana (Tritm.) Schoot. On isover of Patersonian Asternahaffus, Berens River. of P Incless, Norway House

renuncialina I J Davis. On leaves of Pagamoulus deinburgainer: Birds Hill Immeature on July 1 but mature Aug 11, 1927 This species is extely found. - Sagittariae (Western!) Furth. On leaves of Segottama sp. Boreca River, of S. Intefolia,

Clear Lake and Poplar Point, Man., on S. articles, Beaver Crock, Seas. Entrione Achillese Mare. On leaves of Achilles millefolous. Univ., amparently and at

Minch and Normay House. Easily counterfeel on the leaves - Assatzala Spec. On Jayres of Physicia Rangesiota, McDoorne, Man : Istrly common on Solanum trefforum in Man and Sask

- Compositarum Farl. On leaves of Ambruna trifide: Morrie, of Aster Namis; Reston.

- Entyleres Mentaperal Farl & Test. (nonzero on leaves of Menaperatus consistence, Univ. Hanna (199) Bode the headingspores, secondary conduct to be unnucleate, and forcibly discharged free Eddins 24, vol. V. 211).
- charged (see Buller, 82, vol. V. 211).

 Nymphasse: D. D. Cuhirenth) Selected. Rare on leaves of Nymphass adress, Recestatio.
- Considerable search for this furgus has seen made, but A has been found but once, and included and studied in culture on again by W. F. Hanna.

 polyagoram (Prek Tarl, On seaso of feather) on artistric, liner, A rilen.
- Ranuments Bon Schroet. On Seaves of Renuncuine Macounts, Brank River, Victoria Beach
- Thaliet's Schoot. On feaves of Thaliet's we descript, Dauphin. Reston. Line: Graphical Phoenicis (Mong.) Part. On Phoenic concerns in greenous, Saskatoon, Sask. Spraggastion Planci-millianed (Per Taka). Often opposite on Phoenic subserves wherever
- Springpoisium Panisi-neillaced (First Takish, Otheringanism on Panisem miliances wherever grows in Man or Sask Spharabethera accidentalia (Serm.) G. P. Clinton. On tribripoper furnism, Binacarth and Orah.
- Sueghi (Loh G P Clinten On Holeus Sorphum, I nov., Man and Saskatoon, Sask Tillotin carlos DK) Tul (T. Protes (Hyrrk, Wint.) On Pritteon sentrum and T. durum,
 - Historia and R. 7 Tell (T. Tricos (Brief), West). On Frittens accesses and T. Arten, the control of the property of the control of the contro
- additioned this species R2, vol. 33. Hanns, 1996 has studied for physicists of the species and of T forces, and has number resons between them. Over also 21 and 197 2005, ——leavis hydro 4T fortes. Birth & Cutt. They. On Fritzium neets one, mark less consistent on
- T strum in Man & Sast. Hanna 208 polytrel trimethylamine from the sports.

 Tracys Lamnas Setch Std. On Iraves of Spirodela polythan, Winnights.
- Uracystia Agrappys: Person Schroef. On leaves of Elyman, pechalty E. considence; Brandon, W.P. France; 1917. Caused notes injury to the grass.
- Assertiones (Pers.) Wint: a Haberth. On the own patent was II of programme, Brazedon to Morder, Man., Greefell and Wisiora, State.
 Consider Ford. On driven free. Some year and vermes. I ret found in 1922, then in 1924.
 - and 3925, and at in now raising some n_iur to orients, but it has not become serious, and no treatment of seed or bulbs has been found accessary by the growers.
 - Flachers Korn. On leaves of Cove atterests, Dauphin, W. P. Frace, July 15, 1919, det. H. S. Jackson.
 - Gladioli Requen) W. G. Neuth. On cult vated Gladiolus sp. Loverna. Saak. Apparently red previous v reported from America. It was no doubt introduced with a coruz from hamperermandam. C. P. Classon. On Nover conson. Standaron and Subretanal Nata. Type red.
 - gramalasas (P. Clinton. On Neper resoure, Baskatoon and Sutherland Bask. Type collected, in Julius.

 eervilla. Walle). Ralvesb. Occasional on Sense corcole in nonthern Man, Joundalist all Raiseares, Houset, Facinists, Indian Mend. Linton and Martines, Bask. 21, in solidon.
- prevalent enough to necessitate treatment of grain

 Waldatainnas Perk. On Grain referent, Indian Head and Saskatore. Sask
- Ustings anomals J Kunse. On Polygonum cilinode; Minaki
 - Average (Pers.) Jugs. Fairly common on Avrid entrol in Man. and Sask. 4. folse developed this must after artificial enculation at Indian Heal. Sask. in 1929-1625. Hanna and Popp. 1922, 3(5) made encome of 11 Average × 11 Inva.
 - becomings a [Lis] Evely von Waath. Fairly control on Agraymon fraction in Man, and Rad. Somet med destructive when this gaza is given for seed, but it can be prevented by seed distribution. Also in Thomas criticists, Nashbooks, Salat. This must be been pendaged by incrediation of the following hosts in Radk. (proprise disputicishum, A. Richardsonia, Fromma ladglamms and B purefuliations. (See 28).

- Untilego Hordes (Pers) Lagerh Common and mystroun to Houseum religare in Man and
- Nass. hypodytes (Schlecht) Pr On Sixpa sevesta. Bexver Creex Pike Lake. Saskatson, Vonda and Yorktor. Sask., on S. Ferrafish, Rayed City and Trevalsans, Man.
- Isrio (Kelirem, & Sanager) Magn. (1. Kellers Wille). On Arean arters throughout Mannal Sank, or A Johnson with field at Abameda, Drinkmater and Frobusher Sank, and graduced on the abast by artificial incondition or the greenhouse at Sanastoon (42). Apparently more common than 1. Arean, fields from arterated seed may develop as many as 50% made.
- Weigh (224) forms that out plants referred with emit were more heavily resent than those without small

 largestums (Sow.) Tut. On leaves of Gigerra (Pomestona) grander Rapid City, Max.,
- Sarkston State

 Lorentziana Talus Common on Hersicon pubatus a Man, and State, on Elynton
- Macousse, Breene River, Man. Thus area, is very president on H yoko son is autor areas, e.g. is Norway House, not no enumero resumd Vanagegg. It has apparently not revere enuelled previously on Figures, but Seymour methodes a no Statason. The strick or Edymus areas all all, details with D Leorentson.
 - mediana Bodenkopi On Hardcart referr or experimental plots at Brandon, cell W F
- Hanna, see Can Plant Disease Survey Report for 1935 1.2.

 neglecta News. On Science placed Unit apparently rare, authorize the weed host is com-
- 1600.
 nuds (Jens , Roote Common on Hersteam rulgare in Man, and Saak
 ** striffermus (Westead) Noval. Saarty found on Berhammus Namonday. Pen prairwise.
- atrisformus (Westeld I Needl. Blarriv Iouna on Bechmanin Syngarlaw, Pon prairiure, Un v. Man., on Phicus profeser, nest Benutspour und Univ., Man., on Flysrus Marounas Baskuteon Sass
- OMBREGOT DRAW THE ON Tributes evident and T during to Mar and Suk: Traces of this sense on to feture, wherever wheat is grown, but it is seldom very injurious. (See Hanna and Poses (200, 200, 200).
- utricules (New) To. On Polynnum Personno in threshed wheat, Batterford, Sack.
 The wheat was gooded country. A sendor case a reported by Asmodt and Malloch (Cos. J. Research 7, 573) from Alberta.
- (Can. J. Research 7 573) from Alberta.
 Zean (Section, 1 ing. On Zei Mays, across southern Man and at Indian Head and Sackatoon, Sask., on Z. Mays var., superiod.
 Duck Lake Bask., especially. nations to Z. Mays var. papers.

UREDINALES Moloruparroteur

Medianperocece

Chrysomyza Arctostaphyll Diet III on leaves of Arctostaphylos menuros flerent flaver and Victoria Basel. Man. Dock Lake and Lake Wasters. Said.

Cassandras (Potk & G W Clist) Irans. II, III on Irave of Cantuctupine colgonists

- Bereco River. Thus to the most northerly rosted for Neeth America.

 Ladit (Ath & Schw) rds Bisy. 9, 1 on Pieron numeran, Pieron Abart. Salt, II, III on Lofum
 grandonfroms, Bereco Rivers and V viar. Man, Phince Abart. Salt. This species appears
 to be seen variances on Piero Bant the not. The his non-britishing media are not always could.
 - found on Lesum. The first American cultures were made by Preser liberts and Speddington, ledited a thete Lageth. O. I on Piece viewfersit Norman, Preser Albert and Speddington, Sask, on Piece versions, Manak to Normay House and northward in Man. Prince Albert, Bask, il I II on Ledius precisionforms give any birestile in our the affector, princes. The
- State, It. III on Lebras prevaisorform grow agreement for near the affecter, spraces. This root is often approach to price in newthern them are not the Annex Annex Ton Ten Brit. State. Dr. P. H. Gregorr found the spraces yellow with rest from The Pas to Chardwall Man. in 1894. This rest was first cultured by France in 1910 in Nova Scotia.

 —Pyrolas (DC), Roster. D., I on comes of Proce remodessity. Man. (dated in Arthur's Manual,
- Pyrolas (DC, Roste O, I on some of Pecca remodesser Mar (Intel in Arthur's Manual), specimen not available in May and collared in Socie, II, III on Pyrola nastrylins, Dusk Lake and Staketoro Sock, on Previousfeiro, Romann and Line, Man. Thus not was first caltered by Person, in Nove Section 1919, I and in June 19, 124, I call instaired on Pyrola caurifylite from Duck Lake, Sack, was used to incoulate Piece considerate at Staketoro, and a concentration of the Order in Annual.

- Colonogravious Salidagelas (febre) Thism O I on Price Brokhmer, Elb bland. May Mandormal in Software from the Colonogravious of the
- argerli, from Aug. to Oct. 1932, at various pagers around the limiterative winds. It has not been found eigenbere in a soften Capacia, but never in an aroter Capacia. See Connactions Capacia Connactions Connactions Perk. O. I on historium of Privat Randomas, Specidington, Halk,
- cell John Laycock and Marchana, Mad. 11, III not consorted to ten Norway, Hogac Man., on Could be, arous northern Man., or Zonen Jund 4.5 Mad. and at Peare River and Taproot, Alberta.

 Committee Arth. O. Lon Insaches of Pissus Hashanas, Hausesour, det. L. L. Commen.
- and Kenora, H. III on Myrico gose, Ingolf and Kenora

 Quercuure Herk) Miyabe O, I on Pinus -p., Monteo, on P. Bantesone in All eria, and
- at Mandownii, Sark Hystopeore Polypode Pere) Magn 11 on (polophers Polst) fropties, Naskalnon Bask Phane and Compare (23) reflect that the finet pereists in a rayone 4 th no condern year
- Melampiora Ableti-caprasarum Tutruf. O. I. on 1907 Administration Take Washings, Stale, H. III on Neltz constant, I. o. Man. on S. consider. Attria min Witten Saak, on Sales upparents. Man., rummer along the Hurbern a Bas. ris way and at Hombolst and Silten. Saak. The vast or apparents is more common than U. Fredevis in Man. The first American.
 - being the water made by France common tons of proposed in the 12st an experience of the 1st and 1st and 1st and 1st and 1st and 1st an experience of the 1st and 1st a
 - on Salk upp at Mervin. Saskatoon and Yorkton, Sask

 Unit Perio He H. H. H. Harm Le on the Man and Sask on L. reprise, Saskaton,
 Sask, O. I. H. Hiller Leave outstraint on serves Man, and Sask, and searchers in press.
 - No definite records of areis am available exception I waster from Medicase Thom: II III on Popular Information, Rockstorn State, on P. 6 defects, Rockstorn State, or Prop. as upp. in May and State. This rust is remediated in account of "Russian Populars" and other cut frusted forms.
- entidentalis Jacksee II III in Populus bolines(res Sarkatom, Sark on Populus sp.,

 Irdisc Heal Sark These edilectates are assigned to this species with some doubt.
- Indian Head Sark. These effections are assigned to this species with some doubt.
 Malampaoralla Cornatti. Pero Secret. O. 1. Perotonium commencial in in Pierotonium and Action. Norma, Home at I. Storia Booch. Man. Lake Washers. Cypera II. Is and Pinter. Albert.
 - Sua, on P in value thing Hudon's Bay Bailian. Man and Prince Albert Sack, H. III. on Centrium on two Brandon, Man. Roseroum rell. T. N. Willing, and Backatono, Saak. The rust I cine, argo nitches become on aprices: the systems are absorbed in spring, secreta strong of Brand, and Bayes, a forum codes suggesting Zignalogues of DecisionSec.
- drops of legal and have a strong role suggesting Zegalesus or Detemption.

 Malampaoridium batalinum. Pro- high: II III on Retain q. Treeshank, col. 8. Crobile.

 The one collection was made Oct. 6, 1822.
- Pateriniastrum Agriconense (Phr.) Tranz. II on Igricones preprierpile, Treebank, Victoria Brach eastward. Man., Jatimoston. Alberta. The rust raidently lives over moster as unshinspores or myedium.
- merticuss, agent i Trans. II III on Rubus noradu. Sutherland, Sask, on R. cudorus across Man. and at housewere faile and Jake Wadicass. Sack, probably thus rur on R. archives in Man. Islas.
- Geopportsanum (hubn Kleb O, I co. Abser hubaness Lake Washessu, Sask III on h ornerses I see side e, Lake Washessu, Sask on V sp. (probably Y 3 sis-adard) Menals to Victoria Bench, Man.
- Victoria Bench, Man.

 Patentillas Komazov. II on Patentilis Instintia, Berres Rever. Nesway House, and along the Hostoria Bas. Rallway, Man.
- passtulature (Prv. Diet O, Lee Abici fationes, Alberta , recorded in Arthur's Manual),
 II, III on Epilobium administration, Normay House and Victoria Buseb, Man., Saskatom,

Saak, en B. engunifelum, Minaxi to Vorvay House, Man., Elfros, Saakatoon and Prince Albert, Saak, Danvegan and Peace Ruyr. Alberta, on Gode's ap. Univ. Man., Baskatoon, Saak. Calture were first made in America by Fraser.

Pascinnastrum Pyrolas Pers J Schrort 11 on Pyrola ourifoto, Treestank and Winnipeg, Mar, Wynyard Saak on P reconstruct Treestank, Mac, cell E. Cridde, on P elliptics, Beaver Crest and Saakstone Saak. on P referables, 2 ov. Mac.

Beaver Crerk and Sadantoro Saak, on P retensifisher, 1 nov. Man.

-aparatums (W-el.) Fisch II III on Archatelpsfor arriva, Fount Churchill, col. Wm. C.

Gitson June 1832 % on Plant Decase Sorrey Rep. for 1932 100) found by Dr. M. Sewton
to be common on this found (of r. 4 stynes) at Churchi, in Aug., 1936. These records extend

far to the eastward the range of this rust Uredinopsis mirabilis (Peck) Magn. O, I on Alter bolimmen. M.rok

— Struthlaptaridit Storiner O, I on Atset tolorinos, Jaac Washenii Stoa , II rathre common on Pierria todidon, Lun Wan, on different a tricomospi Per referents, Remini, Man, del I L. Conners. Arcia, were present on John Statemas above the Athyruin. France first connected the reat on Abose and Pierrich by outlants.

Procunacess

Gymnocents Pecklana (Hove) Tuter 0, I or Robus could State, and State, on R

arthur, Mervin, Bada, our. W. E. Lair, on R Inform acrees Mar. Tria have not been
noted out the acceptance were found to gymnastic with germ tuber.

Gymnusperangium aurantiaeum Chev O, I on Pyros (Sorbus) americaso, Minaki to Yosway House, Man.
Bathail herr O, I on Crotospus chrysecurge, katevan, Sask., coli. J. W. Scannell, on

Bathali hem O. I on Crotorpu chryscerpe, hateran, Sask, roll J. W. Scannell, on Crategos ap., Sidney, Man., det. I. L. Courses
stanustiorms (Lerg.) DC. O. I on Automber similate, Holmford and Virgon, Man.;

possibly this species or Prainingua chrysocorps, Saskation, Sask classipas Code & Pesc. O, Lie. Assensible of display, Seven River and Virtoria Beach, M. Bakkation, Sask, on Crataegus sp. W. surpey and Virtoria, Max., on Pyrus sp. (emb apple, W. surepey, cod. C. W. Lowy, del. L. Cenners, III on Junyarus communic, Vertoria

Beach, Man., co. J. stervez, Barkstoon, Back consistants Kern. O. I. on Assessment admirts, the M. Hill and Winneyeg westward, Man., Induse Head and Sackstoon, Sank, 111 on Justjevus herizontehs in vestern Man and common in Barkstone.

- Zglobouwn Farl O, I on Cratacgus sp. and III on Jumperus Acciontolis in Sask; det. I.
L. Conners

 Javennacens Kern. O. Lon. Amotischker obstyller, western Max. and Joshan Head and Beskatoon, Role, III for Javaperar horsonders Beautono and Statistical Role for The tract pressures withors brooms on the Creeps of Javaper. Cultures were made by France (24) with Statist material.

- Nelsoni Arth. O. I on Asselsocher singleier Vetteria Beach, det J. C. Arthur.
Responsers stavelless (Berk.) Arth. III removes on Arche suggested from Musch and Univ.

Max. eastward, northward, and westward into northern Sask

Phragmedium Anderson Shear III on Petroillo frateou, Buils Hill and Univ. Man.,
Like Walten, Pik Like and Prince Albert, San

Telliselfisherum (Toor) J. F. James. II, III on Rosa spp. cuit. Moréen and Luiv. The fungus scened to fit thus species, but it may have been a species developing normal y on wild roses.

- Tessias Svd. O. I. 21 III on Portatila bijanovijšto Vielee Man, or P. Natinliu. Cyprem Hills, Stars, on P. pp. Mervie and Seastatore, Stak. Edinonition and Pear River, Albertan, Tennentizagura Arth. O. 11 II, II on Foot School, Fizzofon and vielee Man, or Stars, Seoft Current, Sect. The lord and range make these determinations somewhat disabled Arthur recentled via severe from Mantolon. In the N. A. Flora, but is he Mansad out.

bet it in Canada east of Alberta.

Potentillae (Pers) Earst. O. f. 13. III on Pelentilla lepenouse/fro. P. pobrello, P. suppleme, P. preparadonism, P. strigona and other species across Man. Nack, and Alberta to Peace River. Then rust in very common and other open-procuse on the prepries.

Reseas-accularia Liro II, III on Rese curularia, Norway House Man., on R 1 Mecounti; Pike Lake, Saek., on Ross von., Melfort, Saek. and Edmonton, Alberta

- Phragraudium Rosse-arkensanae Deet. If III on Ross opp., Films, Regna Beach and Businstons, Sask., Edmonton and Peace River Alberta.
 — resteals (Fil. & by Arth. III on Ross ay, Saskatons, Saskatebewan. The unusual rust
- resteads (El. & by Atth. II) on Ross sp. Saskatons, Saskatohwan. The unusual rist
 and Schmidoud. It is recovered in R. onf-side in Aberta and on R. Eugelestani in Montana
 and Schmades. The teluspotest are one-colled.
- Rubo idaes (DC) Karid. O. I, 11. III on Rubus sedevolutias in Scotk, on R. olorus var singuase at Brandon and Trembark, Man.
 apeciasum (Fr.) Cock. O. I on Rese. pp. Buskuloon, Sust., III on R. Mercunti, Indian.
 - apaciasum (Fr.) Cocko O I on Resa zep. Baskatsom, Saste, III on R. Mecounti, Indian. Head, Sack., and on Resa app. cult. and wild, across Man. and in Saste. The traditional true are often conspicuous on roses.
- Pheologia Toutcodendri (Berx & Rav.) Arth. II, III on Rhus Toricofenicas, Brandon, Treedrank and Wrunger. Only one collection has been made in eastern Mati, despite considerable search.

 Purchala Abstathia (Bedw. f.) DC. II, III on a lenser can. Assi Kermoort and Lausland,
- Pucchia Abstrathis (Heds. 1) DC. II, III on a Lenses rows Asset Kermoort and Lausland, Stuk, on I. regule, Backstoore Back, on Expusiolosco, Dengler, Accuses and I was for This road of dealth on present across the process on several species of Activation. Annahusema, Diet. O. Lee Manadateman namedrate. Prince Albert Suis. on Venezia
 - Smiller) savaverem, Djerkelsk. Pike Lace and Seakstoon. Smil, on Smillerne dellant, Penne Albrit, Sang, on Newlar deviceous, Barus Hill. Man, 12. 12 on Susmavijla lengidot, encomm, in weeters Man, and arrows Smil. Pice averlanes: a Prince Albert charty unifolded that the stages on Measthfream coundries and Smillers at stilled were connected with those on Catamarith Insusation.
 - on Colomorify Inspirite.

 Andropogenie Schw. var. micropiuneta (ET & Ev. Arth. O. I on Cortaleya sessififore, Indian Head, Sadk.
 - Andropogopsis viv Onoshrychidin Burrl Artz. O, I an Petislorinus cantrius and Perislorinus cantrius and Perislorinus cantrius and Perislorinus cantrius and Petislorinus cantrius and Petislorinus cantrius and Andropogopsis are Petislorinus and College Artb. O, I on Petislorinus constitution, Israndon, Alani, on Petislorinus College, I vivil and Red and Network, Sala, on Petislorinus cooperins, Diseased and Network and College Arthur Colle
 - empredist reider.

 Andropogonis var. polygalline (Peck) Arth. O, I on Polygals Schoot, Brandon. A heavy
 infection was 6: od on Liby I. ODS. This record extends the range consistentity to the west
 one north.
 - Andropogunia var pustulata Kurt | Arth. O I on Cossandro polisica, Monten, Winnipeg, on C modellista, Birds Rat, Winnipeg
- Antemones-rirginianes Scient III on Antervane considerant, Univ., Main, and Beaver Cross, Sock
- Angelicae (Schum.) Futket II on Zuno ource, Brancon, etcl. I L. Conners, III on name bond at a lizarny. The II speers are rather small (22-30 / 20-22 a), ofe I L. Conners). The halament spectmen may be P Zi.co. q v 2 / the felia are insortly hypophyllous, the sporce up to 48 × 24 µ speer wall about 2 µ tacks smooth so far as observed. P. Angelicae a not have a change on Time in Section Austral.
- known abseshiese on Zerm in Nortin America.
 angustata Feek O, I on Luopius fascilus var concreonar (L. asper), Butherland, Sask., on Mentha gishers, Branchon and Duaphan, Man., II, III on Eraphorium angusétédium, Butherland.
 Sask., on Neugas attoworws, Buszón, Man., on N. rippersius, Minaco, western Ont.,
- on 8 meroserrus, Brandon, Man and Pike Lake, Bade. Cultives were made by Fraser G0, 24. 1 now curs of kare, the acces on Memba may be referred to P 'Henkon anormals Boster. II: III on Hondown enforce, Ban, and Qu'Appelo, Saak. A trace of leaf rust of hazley was endeted at Cn.v., Mar. to 1922. It was not found again until 1927, when it was no remarked to research and section Man. It was economies in 1920, and has occurred to the sector and section Man. It was economies in 1920, and has occ-
- curred now and their nose 1933, but it uses not came a serious desease of burley, a western Canada Antirrhand Det. & Hole. It common an Antirrhand Det. & Hole. It common an Antirrhand and Sakshaton, Sask. Sangdragen rust was noted by gardners in the Winnapeg area in 1919, account of the nuts may perhaps have been present for a year or two before.

Bank

- first millerton known so the prairie provinces was made in the Univ. greenhouse, Wamipag, in: Man 20, 1930 F. Anterdon mon moved over Man , and stare 1935 has been found in
- Budi. It is often russous to mapdragons.

 Passiona Arenariag Ottium I Wast. III on Arenaria (Moshragos Sastrifur Chambrian and Labe Nadrous, Radio on Noblems templetes. Indian Head Budi., on N. Jerugaya. Venda,
- Bush
 Turcelata libet & Hole. The rust o reported in Arthur s Manus. rec. on t obto reproceed from Husb. The collection was made at Prince Altert. Husb., but it now appears doubtle?
- that the heat is really it represents an interest and the heat is also despited that the heat is really it represents and it is also despited that the real is Provider

 deposited in Privile W at III is Improved there represents the No. 4 Add John Lavoot

 Additional Trace S I on Changed in which and I destine it when Mind in Man on
- Farmer storme Destroy Mar. In Parel Brance Secret III. 1 species were detailed by Mar. Man approximate to the extra of the control of the extra of t
- Buildation Hald. The real senses me rapper ripor to Asperague.

 Addeed Daby: Ill on their conference, Mirable metrics that me A foodlegmon Larv.
 Man, on 4 most force. Broads and Verden, Man on 4 more magines, Derickon, Man,
 on 4 force Indian Head Hald on Arter ago Demokraw Topicas Head and Scalarios.
- addedusser Dalles & Davigor J. Jan. O. Lon. Orienters lacked. Broadcast: Sud-, on A remposes Dever Abert State. In a favor in David San Sala. In al. Longitude Sala. Balance Sala. Inc. Journal Sala. Marcola S
- designment in this preserve
 designment Prob & C. W. Chart. 111 on Experience Septem. Manuster 19t. Grouper and Hashaton. Nach. The best is given in Arthur's innovated and extensives. The range of this runt probabily northises Man. Full Claim not be flower.
- Bardanae Walir / funda II III on It tram money I mercer Univ and Westboarne, Man. This rust as common along the Red River - Cabbae Luch II I I for a saits pulsaries Bereve River Brance and bettern Brush, Man.
- Collings Link. II. I I on Coatha pulsarius. Service Rever. Rever. Bennes and Varturus Bruch, Man. If a fallow most succession in rustern Man. It is distinguished from IP entitions by having amosts, narrower telespores.
- millihanda Nelvest. 11 fff on alto potarius, Line Lake of Baughan Man. Lake Worleun, Binh. That species has been found by the sorters and in neuron Man and nothers. In Cartida, (whitin). Potaries was grounded data. Arch. 10. Inn. RNA-Service. IE Linearies and R. arprovalendo in Man. port both, on R. nopum and R. arprovalendo in Man. port both, on R. nopum and R. arrives in Mich. 11. 110 on Carting port both on the continuous will be service.
- major for referrable spreams when nedges given next or asseming them. The openes of 4 cares indirected have, not set been discussed in sources Canada, except C desaptions when it between the "N A Flows." 2.55 from Mass can a host for the form with large servicespream featurely called P emissions.

 Carolida year serificates (Never) Arch. O. 3 cm. 6 rives proofes services Mass can dis talk morth as Plant Charrich, and "Win. Gharmes, on at "I gaille in the Bash and at Olds. Abbrest [13,11] and
- Panel Chaperhall, cell Win. Classow, on U. Epallin in Bash, soul at Othe, Albertay J. Jill on Creas semantia, Doughan, Man gold Pibe Ladar, Subs, on Creas upp on Man and Bash. The reasons for the spoom of U. Italian here are monorhal unsertain.

- Procedure Cariefo-Stoophorelises J. J. Davis. O, 'on Minospass represent and Stophorelis examinates as Han and Boals, and Exampletion and Stophorelis expectation and Stophorelis expectation and Stophorelis expectation of Correct advantage, The Lake and Stables, and Existence, Gall Existence, Gallesian Stablesian, Gallesian Conference and Ladergham 2013 extended and advantaged to the Conference of Ladergham 2013 extended have related when the Conference and Ladergham 2013 extended have related when which this agency.

 Christon Lanch O. J. H., III on Conference reviews the Windows, Mark. J. H. III on the
- same heat, Sashatoon, Sask, probably also on this heat, although recorded at C. moculete, at Brandon, Man. This rust is apparently not common. Circases Peri. III or forces of prop. April. No. No. No. House to Nortona Beach, Man., Lake
- Waskern and Torino, Sask This rust is often attachant in beds of Cream. Ciroll Lawb H. III on a session by horizon in mentern Man, and in Sask, on C resistant.
- Cher Lake Man on C souldation, Grawold and Treesouth, Man, on Carsum app. St. Gregor, Sintaluta and Sankatoon, Saak.
- Comandrue Peck III on Comandra Nosle, Norway House, Man; on 6. pollide, Turtla Lake, State on 6. pollide, Turtla Lake, State on comptonerate (Straum) Schundt & Kunze III on Petersies polimetes from southeastern.
- Man northworkward into northern Sack. This read is often common where the book is found.

 Convolvabil (Pers.) Cast. O, I. H, III on Concolvatus sepsem. Neepswa and Univ.
- extraction Code (C. I. m. Ricospece reprinte Riservan singletin, R. micher and Michaelen endodrous to Man and Noch. I. H. II in a drien where Richemants Symposium Proceedings (C. I. m. Richemants) (Special Proceedings of the Code (C. I. m. Richeman) (Special Riservan State (C. I. m. Ri

Brows, and P coroneta Elacoani

- Crandelliti Faccori & Hume. O. I. common on Nymphoracryon covolenzous across Mun. and Stack. II. His. or Factorio extent. Saskatoon, Stack. The trival stage is proteinly also common, but a incompetation.
 Crandelliti Arth. & Hole. III. on Carrie dum presideram, 80. Gregor, Stack. This result.
- ratal is apparently known in Canada front this one collection only

 Dayl G W Chat III on Nurverse colories, common in Zone 3 as Saak, noffected also at
- Bayr C. W. Chail. HI on Nitronesse crists are common in Zone 2 in Sank., noffected also at
 Edizonton, Alberta; not yet found in Man.
 Distribiblish kill & Ev. O. I on Glanz meritims, Sankstom, Sank., on Statemens chindum.
- Mordon and Luvy, Man. Renove and Jordon Ross, 13, 11 (16 on Spering emotis, 5 perinset and h up to Rosse, on S perinset, Markeds, Man. Cultures were made by France (27) on Girac neuronism. Money of the collections of areas on Stevenessan may belong to Uronspee organisms was described (gra-).
- Douglasii J.H. & Ev. O. S. III on Phlor Hoods, Carmel, Dana, Katepwa and Saskatoon, Sole. The telial stage has been found twice at Saskatoon.
 Drahon Rodelph. III on Drahon so, Caire Merry morrowals at Fort Churchill, northern
- servanose Kartispin. 111 on Lividos 19., Capis Merry pamirando at Fort Churchill, northerns
 Man., collected 1920 by J. Delanoses, spervense sent to I. Jesenda, who reported by letter.
 Ententina Arth. III on Spherapholas oblessels, Prince Afbert and Bankatono, Rode. This is probably the versety Respectable Man. access on Revisional to Networks. Let dy Bonnel. Most.
- promotery me warety Ranqueruji Mann, accus on Renanculus Vaboriusus, Lac du Bonnet, Mann, may possibly belong to this rust.

 Eleocharistis Arth. O 1 on Rupatorium purpureum var meculatum and II, III on Eleocharius m., Hranden Man. This rust was collected in 1817 by W. P. France, and has not hors.
- sp., Brandon Man. This rust was collected in 1917 by W. P. Fracer, and bee not been encountered sence.
 —Effective Thism. D. I.on Viole representatio. State tono. State. on V. noo. Eden and Wissish
 - pog. Man. Sasiastoca and Batheriand, Saist, II, III on Andropages coperior, Ceedman, Langham, Sasiastoca and Butheriand, Saist. The sects are more delicate than those of P. Violor, and are bornes on pale yellow spots, are note under P. Andropagesis var. Postsistensia for differences in II and III on Andropages.

Panelinka autonatoole Pleur var Antarta (Thum, Arth. O. Lon Aster Paulitherus and A spip common aerone Man and Sink. If III to clare sape. The series appear long before the asters below make aftertenovation of bost definelt: the absorbate mass one endorlares not yet been disentangled in San and Sank.

— metanoleul art Schericket Scherick Arth. U. Lon Havenium substancium and Lastices.

profe file in May and back, on Europe commonal at Branches and Warnings Man, and it thinks to Mock on Proceedings of the Man Service of the following harders in Rock Springer almost and Auge Corp. proceeds at Dearst Corp. Europe consist Astheritant, Corp. as Standardown and Astheritant Europe in our per not at Deadston, Proceedings represents and formation of Corp. to the computation at Danket on Proceedings or Proceedings Banketons and on Corp. to the law and State.

saturation and to Carrie app vicinian and took

automated avar Denatherne Mort Arth O Fort Fred Street angle Process Bendings

Man. Kelliber and Mellist. Noch. on Considere Science. St. Artford Beach. Man. Balestein, Noch. on Consideration on Treeshapeli, Man. 17. III on Consideration Science Science, Science Science, Treeshapeli, Arth. O., Con Science on consideration of Science Science, Treeshapeli, Man.,

ca's excessor festion Head Stack and Twe-bank Man. on Striples at Brainfon and Trees
have Man. camera e on School of the Man. and Bank, II, III on Cares app.

— Gentlanne Strains I. & H. on S. excess of P. Paper et al. and Stry. Bill. Study, on G.

Gastianae Stajes I. k. II on Coston of ..., Engished and Spy Hill, Suk., on G. interrupts. Wrights in Nash.
 gigantiae Kard. III on Englishman angus folion is oftle found at Clear Lake. Man. not.

meconision at Norway Hospir where it reaches its most casterly known range in North America.

— advancarium Schimott Exilon & Henn. II. III on Explose cylindr or Agroporom app. and

represents on Horseway powers in Stack, and Toronous excession to March to the an in-Protects Stack on Horseway are and near all contents in March Stack on the inrestinguish. The stack of the Anna Content of the first and the section of the stack of the first investigation of the stack of March 1998. If I am all no sections approach is a shaped in consistent of March 1999, and the stack of the section of the stack of the section of the stack of the March (200) with the stack form description by a measurements.

gramman P a. O I in the ter man at morally language three Nava and along across hold ery Man and Sask before the remove materia was been a less respect a retermanufed in 1918 and references to 11 111 common on the course, a referred to a contract Augras, C. Parker in Committee Commi Brown berieferer Flynne moterer F debutety F Manual Hierards relambs Books and the H. Marry Polices are along a broke or of T. son and an Transporter Transport Tran Arene made Brance Pumpulation and the home to describe in Sult on the course pratrices. Heckmanner by special Res. a mazinet Duetyles glomerate from it on Patane marronas and Specificherryproduce a Man. In adoption to the above the following greater great his great gation at the Duta, me Rust Research Laboration Winnested. write found sufreted naturally. Igropping I of how fromous suches to Junuar woodus R. sieurus F. remayas France Mauric and Hustreen my rays, but more of tony gramms are not put yet or to Man. Party or groups, to exten destroyet as in Manufeda and contests Bushatchesian. Many of the pulsorations rated in the Rev. graphy refer to the important work which has been published a stem mut paster, ach from the Bust Research Laboratory at Winning (139-24) giving that on life-bostory operations control etc. nor aim Buller (\$2 vol. 11) The arrefunctores numeriness cause asthma. (Di), several cases were found by physicians in Man. in 1935.

gramminia var Philot-pratuonia (Eriten, & Henn) Stak & Picus. II, III common on Phinus. Jeutrase in Man , but not general in Sask bring known only from castern Sask. This

promote in a size, i out awa green as meast congression and size in flat.

- granullequest Pill & (salienza) | in 4th new restate from Alberta cel. A H. Branhman

From the serva slove A cannot be detertioned with the this reflection belows to this movement.

or to I recepted becolor but from the ranges goven in Arthm's manual it mems probable that K belongs to P granulispore.

at according to a pressure party.

- Fuecania Grindelina Peck. III on Aploptopus aprintionus, Lloydminster, Saskatoon and Southey Saska, on Grondelia porentis, common as Sask, and at Pincher Creek. Alberta, on Expositivity praces, Istandoro Treesitanis and Vintees, Man.
- Lippodevents process, Brandon Tressbank and Virden, Man.

 Halerdan Arth. & Hols: III contens one: I worlds var outs, Minak. western Out

 Halerdan & Reb. U. H. III w. Relievative arounds, common and sometimes process
- Mar and Sixe reflected also at Edmonton Alberta, on H. Mazimatoni H. periodicis, H. artesterou and H. chronis in Man, on H. artists. H. fenzalaria and H. chronis in Man, on H. artists. H. fenzalaria and H. chronis in Man, on H. artists. H. fenzalaria and H. schenoslesses in Sack. Cauge C100-18) and Brown (145-17) have studied the heterothillum and
- Manacharas Se w.) Diet. III on Hewberg Restaution. Browns River and Treeshank, Man. or Marks note, common when this host grows in Man. and Sark.
- Higgmen (Schoot) Mark as: If III rummon on Theory we archivariation and Tarraprised inference in Man and body, and figures of pieces Antinobin, 80: Gregor and 80: Wall stag, Such. in Cycle Courses 66, Cypters Hale Stadt, on Timerium democracy, Bondeers, Lake, Such. in Theorems, consistency, Automa, Barch, Man. Presents have been emberted on
- dates set in M.n. and the rest on this last extends at east to M.e. 32 no the Hudson. Buy Rasway. Man and to Edimenton Alberto. Attermissian Perk. O. Leonmon on the actions in Book., III collected on the acceptance of the
- Hainer's Man and Nackation back. The not realently accompanies the host to approximate viscosiem and a Mar.
- Keeleriae Art. II Hay Anderse restore A prorite Parkaton, Sark.
 Liatefulia Wesser, Bethel. O. Lon Jacha angent H. germen, Burts H.R. Yen. Delvot.
 - Listerialis Weisser Bethel. O. Lon Letins assem (L. corrison), Britis H.B. Men. Belvoir, Sonic on L. foods) of a Winston State, from L. corrison, Bower Crees. Sonic State State and Butherland, Sonic H. L. Con. Ignories Syresidis, Tevestiank, Man. Canora, Mr. ville, and Roothers, Role.
- Liennau Mag. O. Lun Lyasunchia (Voundargos) tops for Norwe Hope
 Liehti Khitzeb. 111 or Fabresian praceforum, Berens River and Norway House, Man.,
 - FO in Lake Is of your Research Lake and Lake Washerin Stade. This rust is constitute in the north where the host grows.

 Maggrussians how:

 0. C. in discussion constraints. The Pass Man, and recorded in Arthur's Manual feet State 3d, 4d from Physicians commission Dates in Man, and of 3d W. P. Passer.
- 19.7 The bla spores are distinguished rom those of P Prospectic for being narrow, not constructed, and Tablessed at the ages.
 Maksacegram Berter. III in a little rane and Major relawlytess, Univ., Man., on Malay. e. cur. Winnesse. Although dendaled points of this rust were necessary pressure.

 [1990]. A specific of the little and 1990 dendaled points of this rust were necessary pressure.
 - and his privated to raise some injury in succeeding year. If surrated and been been by Buller (82, you III).

 Buller (83, you III).

 Buller (83, you III).
- and in Zeer 3 in Stale Monthau Le s. O. 1. H. H. revision on Mr who philosoci in Man, and Nick., on Movarda
- menter true and Munaria app in Sock on Munaria tractors in Man measuragaha levik & Unit. Iff on Chromits formely, benora, western Ontmalifetial Juriel. II in febilio mitifation, Latterier Man and Raymore, Saak, on
- Artemises frigids. Beaudon and Virdee, Man.
 milmunerness Thism. O. † 11. Iff common on Lecture publishing across blast and Sask, and
- morroussersest Estate U. C. 12 111 common on Lartness putchess across data and Sach, and in Porce Birter dated, Alberta, in America, and analysis and a retro-fraction (A. F.Holberth).
 manusoica Perk, Arth. O, Los Aristos and at Carmel Bank on Ariske men. Bright Bill and Backstones, Suck, and in A seriodostic and at Carmel Bank on Ariske men. Bright Bill and
- Vivian in eastern Mar. Treesbank, Mar. Latepia and Pike Lake. Sask. II. III on Kosteria crasisto. K. genralia: Sasiatoce. Sask., probably this rist on Tractian apacition, Le Pias, Man. The aceta are common in early spring on Arabo, and arms from systemas invocabula. montanensis. Ed. 11. III. on Agrenaron dazadochusus. Sasiatoon. Sask. Edizontos and
 - renorstansensis El) II III on Aprenyron daryster-byam, Saskatorn Sask Edizioritos and Peuce River Aberta, on A vegras, Saskatoon Sask, co. A Richenformi, Dauphen, Man, Rasiatorn, Sask, Pune Roser, Alberta, on A Susibia, Brandon, Man, on A fearway.

Brandon, Man, Jarydamuster and Sukaksom, Sask, Prace River, Alberta, on Etymus canaderas, Brandon and Dusquis, Man, Sukaksom, Sask, on E serument, Dusqies, Man, on E Presisson, Johnson, Dismodon, Man, on Herricos jubatum, Edmonton, Alberta. The ruts is windespread not be pracries and occurs fas beyond the accul bost Serberts F-tellers of Colorado and New Mestic.

Procedite a Society School: 11,11 mo Limite responses war multiples of beKague, Sask, col.

A. J. Brestung. This extends the known range of this rust.

— abbeets Peck. II. III on Starting colleting, Pike Lage and Vonda, Sask.

orbituda Peck, & G. W. Clint. III on Presenther recessed, Cudworth and St. Gregor, Saak.
 The range of this rund doublloss includes Man.

The range of this rust doublishes includes Man.

— crusta Arth & How — III on Russes occidentals, Gienboro, Man., Meota and Lake Waskesiu,
morthern Saak, and Craugusje, Alberta (A. H. Brinkman)

[— Ornithogali-thyruseides Dirt. This introduced rust developed II and III on prefundes and flower of Ornithogous National grown is Wirn, prg. from bulbs from Capetown, South Africa. It was called in 1932.

Orientii Jackson O, I, II, III on Distriction passiforum, Humboldt, Stak The O and I were identified by Cummon as belonging to this species rather than to it respects commonates. This record adds another host and extends the range of the rust.

Parkers Incl. & Holer III on Ribes securice (var perculus), Barff, Alberta. This also adds a host and extends the range.

pseudoremosapene de Tarry Arth. O, I on Proxicus penasternare, Vatr. Man., to
F penasternare var. Inversities, Indicates Bank. Both collections were made in July 1920.
 Pleagement Ochum. J. Avin. D. I on Phram Planetoness Braiden and Investol, Man.,

Daughto. The rest is rarely reported on richesty, but necurred in rasks July 1603, the Immood sace men pring so standardly infected that it was seen in bis agreement had obtained the discussion of the principle of the principle

 Physalidis Pres: 111 on Physics engissions Treesbank, call 3: Craddio; recorded as Arthur's Manual on P Asterophylik from Man
 Pimpurelles (Straue) Martins C.1. If 111 common on Occordan Imagingle at Univ and

Wannipeg, Man., 111 on the same host at Pice Lake, Stak.

— Pose-audations (Westend.) Joretal II on I on I on protection in Man., II and III in Stable, on

P pafastris (P triglors) Saskatoun Sask , on Pon sp., Humbeldt Sask. The uredis contain paraphives, the telm are not rumments prescaved, but were found in Sask.

— Pulygon-Lamphthist Pers. var. Carvalvuli. (Alb. & Schw.) Arth. II, 111 on Polygonium.

Consoleulus, Treestank and Univ. Man.

- Polygoni-amphibis var. Persicariae Olimpan). Arth. II, III common on Polygonium amphibium var. Hartmysliu and P. Mullenbergu. n. Man. and Sack, and on the latter host.

at Vegreville, Alberta
popphyrogenita (urt 111 on Goraus empofensis, Nieway House to Veteria Heach, Man,
Kingstore Lake and Lake Waskessu, Saok. This rust is fairly cusmium where the host grows

Ring-over Lake and Lake waxens, pass. The rust is harty common where the root grows abundantly

Poloetillas Kalch'or III on Anemone palens var Bolfgengome, Estevan and Saskatoon, back

— punetata Link. I. II on Galum trifidum, Norway House, I on Galum ng, Treehaak, Man.— punetata var tregledytes (Lindr) Arth. II, III on Galum trificum, Luiv, Man.— primmes Eriks. II III on Organisa sprifelin, nega Gimi, and sern nega Lac du Bonnét,

pygennas Erikes. 11 III on Orysepsis superifolin, near Gim.; and seen near Lac du Bonnet,
 Man. The known range; is nounderably extended by those collections.
 Ribla DC. III on News rants, Beress River and Victoria Racel, Man. Kingsmeru Lake

and Lake Washesto Sasts - rubefactors Johans. III common on Galium boronic across Man. sext in Zone 3 in Sasts.

— rubique-wera (DC') W. nt. var. Agreupyri, Leikan, J. rtb. O. I in Statk as follows: economo on Anomore epistedrou, na. Agricus Backston, can Tienata lapsachefelin, Luciur and Statiston Island as Medicinen Batk. Alberta, in. Rassurantia: (Eleirystata) (Symothura, Fishalaton shao at Medicinen Batk. Alberta, in. Rassurantia: (Eleirystata) (Symothura, Patherta, Ind. Man. Albir ratio for possibly in tacco cataent the var. queropyrion) has bose collected on Action.

with A melon, Assumes of philadras, A compution, P-ballowing dispurpors and P evaluation. It limit for propose subspaces, the about A melon A for such resolution, A, A for such that A is the subspace of A melon A for such A for

Pucelink rubbye-wan war geoppyrink (Erans) Arth. O. Lon Tabletrom diagont year, Indian Head, Sake, Go, Trendessun, Redrict (urrest, Sake), Lill, Hon Merone rubbura, Random, Man, and Nauderry Sake), on M. Sanghiwa, Dandon and Morre, Man, on M. puspon, verpara, Man. Cultivas were made by Parser (20, 31, 20). The telespores are commonly feature and the cultivas and the common of the control of the content of th

 rubigo-vera var apocrypta (Ell & Yracy) Arth O, I in Osomorium occidentale, Hartney and Treebank, Man in Pherela Froubtus, fiels rk, Man. If the telial stage of this variety has been callested, its reoluted under var. Aeromet.

- rubigo-vers var Imperimentia (Arth.) Mario (se ra Arthur & Manual). O. I on Imprime before Berrus River. Daught is and Waggier Ber vgs. Man. 13. III on Hordens judatum. Daught is not fire de land. Man. rutturd to this best and also to Elizana constants.

by France (20, 21).

Publique-ware var Saculia (Erikus,) Carieton (P disperse krikus, & Henn se part). Common on Scotle cords o Mon and Same

on Scotle cercale in Man, and Eask
rubbigoverse ver Trailed Ershan & Hesto) Carbeton (P. Indicana Ersham,)
Common and
superiors or macross on Trailed Ershan & Man, and Stalk, oresational on T. dersem and

monitores important on research southern in abon and Bask, obtained on T duran and T Spills.

panhor (Ell de Fv) Barth. Il III common in Stips revelate in Man, and Bask. Amphispores are absorbed, but short in P Stipse.

passills Behrino. Q. I on Pra reviseder, I selona Beach, Man, on Mosashemum cunndense, Care and Winneyey, Man, on Newsteine stillate. Brandon, Trevebank and Univ. Man, Josius Head and Nutribeland Mask. I, I. Il on Philippine structures. Strandon and Brana.

Burer, Man, Lodan Head and Sutherland, Sask — Sharardiana K. en. III on Mahmatrus zaccaraus in western Man, common in Sask, and at Morin. Alberta.

 Seeghl Scine 11, 111 removes but scarrely injurious or Zee Maye across southern Man., and at Jesperial and Indian Head, State.
 Searchall Arth. O. I are Advant advantable for true var auditous if, undeficient, Kronndy and

Observed as Considered and Considered Section 1 Con

State, ore Japorizama y owere. Strick Man, Beaver Creek, Pike Lake and Baskatoon, Bask., on Nordope repels and 8 args in State, II, II on Stripe control, Bossevan, Bask Lip Crewbank Man, Watruss Sade, or 8 spering Elishorn, Man Anther, Sade, on 8 consider vitz surrenche of Teredyn, Peace River Alberta. The seess are covered by the hort Lunus and open by a Dorr, and can thus be distinguished from those of P stransold

— Vullgimona Jun: I on Paranessi potentus, Cape Merry at Churche. on Hudson's Bay, end. P. H. Grapery, Aug. 23, 1951. Only one creal group of hypophylicus areas was present, such aperes, Fol. 18. 18. 20, paper wall about 150 upon. This rust is recorded by Arthur in North America only from Kodusk Island, Alaska.

wagams (DC.) Arth., var. Epilebili-katragoni DC. O, I, II, III on Epilebium odoscondon, Moose Jaw, and on Epilebium sp., Indian Head and Weyburn Smit. This runt is not known clienchers in Canada.

 wennas Farl. III on Bestelous curupendule, Treesbank, Man., coll. E. Criddle; II, III on B. grander, Brandon, Man.

- Pacelini Vilakar Schauschi IX. O., I. I., III. Hen hade of new Terrebuch Max, and retronations in Man political cert in equippide for it? coverable Space Sock, not pubsicant Herderic and Linc Max, O. Linch ancest Terrelanch Max on the previous Terrelanch, Max Janeer Sock, etc. V. voec Linc Max, III. Illi not Periphics, Radiation, State on Visit repr. in Max and Soc. Men det april P. Ph. construction, State Linc Max, Visit and X-Xarchin Selv. 2011 on althorous institution of a Commondial, Process. Max 1 and A.
- triple along the first in Man, on Austrian reviewed not uncommon along readsides and river in Man, on Austrian np. Delts and Treatmank, Man.

 Zianas Fr. & Fv. Li on Zeite volvie. Nr. Grepor Niele. The rest is known otherwise only in outside Wichington. See most surse. P. Austrian.

Teenrachelia suffusea elfobe i firth , il require or the some petros var Wedpercount in

western Man and in Sask

Thelicies (Lex. Het. III on Thel. are to per pure and T up. I have not Winnipeg.

Man = 7 transferrer, Seekatoon Saske, coll D. F. Adams Ursernyees acurrenatus Arth. var. magnatus (Arth.) J. J. Davis. O, I on Messenyees

promites: Mandon el Zook, el Noro con abilit. Nell Bat fel el Nork, probable on Berellagh el en Man, but their have not el Noro el Rengarred from lea anche el Parisson archer. Il Illion Sportia, que la North Battherine, Sook, un le Pretinore Handle, Man seruminatus y Palementi (1984). J.J. Dayre, 19. Lincia, el Const. montre hatepore.

No. A. in Principle of the American Hard Na. A. D. Hard S. and G. Grand, Kate on Nach. as the effect of the cartier I on Gillis, on S. pertinents, Moscorron, State.

- actualization of Sector representation (S. J. D. D. O. L. in Justice State of the American Sector Se

Bernnington var Steinensmitten (A.). J. Davis, O. C. in Donis other, an official Hamilton and Stein Section (A.). As an As and the superconstraint of the same of the superconstraint of the superconstra

III or lange corper deserted. Between Man. Princ West Novaghron, Trelay Wests and Visite work. (Linear work percent) I between the control of control of the control of control of the control of control of the control of cont

Man involutions, panel like you is often injurious to certainone selected rises it if d. is the temperature Arth. Q. J. III on I selections Like and Minimum Man in I directions was display(often (V sparsylotio), Saide (recorded in

Arthur - Macua time I. Conva, Clear Lake. Man. The areas are vestimate.
— Dactylidas 1935. 117 on Pass crosses. Beautrisige: Alberta, or P. protesses, Spirit River, Alberta.

Falses Pers to Bray. At London's control was a possible State at London's State of the State of London's London's State of London's London's State of London's London's State of London's London

- Continuos Aris. Il on francisco aire i fivre Dana Nach. det J. C. Art. ir. Cheprebiana, Rabenth. Magn. O. I., III common on francistics broaded in Man. and

Bias. The next new areditioned. I. E. Commercian in productions present in local red telm. but according y media are apparently not formed.
— Medicanti-absolute (48: Carest. & Piercine. D. L. E. III on Hedgenium analysis on Tham.

 Modyanari-ophiciari (1R. (arest & Previor. O. 131-11) on Hirdwaram neutrinose. Union, Primer Albert and M. Walliang, Sook, and Spaint River. Alberts. on H. In de de Bricovan and Raput I it. Mar. Humbooki, Monomin. Narram, Revisual and M. Grego, Sask., on H. cise-raviva. Indian. Bend, Sook. The usedinas ner aestiloid and contreed.

- Instatunianus Schu Shesion O. 1 on Hausense seegistis. Marchys all and Prace Albert,
State

Test

— Mysperies (Porring , Cart. I., III, III) on Hyperscom perionstom, Berran Rover. Man. This extends the range northward to 32ⁿ.
— Intrinsitute tools: 0.1. on Economic Statum, Bashatoon, Bash., coll. J. H. L. Truscott,

HI on the same host at Estrum, Sask , coll. I. L. Comera and B. J. Salkan. These are approximally the first reports for Canada.

- Umenyess Junei (Derm.) Tul. Q. (on France February, Drandon, Man, and Kadaloos, Sakk, and C. metapost, Rennelly, Sakhon, and Sakhotos, Kennelly, Sakhon, and Sakhotos, Kennelly, Sakhon, and Sakhotos, Alexandria, Sakhon, Sakhon,
- nervipositus (Grognoti Hetson I. III or Trifator ergos, I erg. Man appearedly the appeared by Tableson at Wators Successive I rempedia a resoly confused with C Trifosis, of which it may be only a condition with suppressed unreality.
 - perigymus Hubt. O, I un Korberhe berunts Bracke Carman and Dropmore, Mac The past must remain universitat doubtfo, until Iriia are found
- 1.50 rurs mint remain somewhat doublfu, until tella are found plants Prok. O. I., H. III on foura onceinos, Wassanern, Man., Cochin, Estovan Odliosk and Bushatoon Shak
- Polygoni (Pere) Fuskel. II or Potygovani arivatare, Winnipeg, Man., on P. hazifornie Bodatson Sack., O. L., I on P. ercenn, Carman to The Jan and Wit n peg, Man., 11I on P. caronarisani, Katrine, Man., on P. Proloccius, Region, Basir.
 - programmens, N.) Pase O. T. H. H. on Exploration (Currents) of physicsperson, Nashatoon, and J. H. et A. they, Sasts, on S. expections that Thus, Mortley and Law, Man. Pagestakes Poly ver aroundwides (News), Arth. O. J. H. in Pagestakes accomplished, Assumbting
- and Starkators. Since This and the next variety have their anone ranges extended by these roots.

 Parallean var kypica Arth. O. I on Paralle inscender, Tompkire, Sack., and III on the
- -- remained yer typing Arti: O, I on Paratire interestals, Templeiro, Sask, and III on the same hort at Saskaton.
 I on Conference Secretary Darks Mar.
 - punctatus Senroet. II on Oxyropes ?gracitus, Bartle, Man.
 - Rudberleine Arti: & Hulis III on Rudberlei beraneta Cartean und Dauplan Man. Beirgi (Lur): Burr - O. Lon Carata occusentato, Nockatoni. Rack., on Nasia recordibuse, Rariol C. Man. Nastatoon, Sach. II. Lil on Newar schutzen, Sacksborn of al Visioni.
- Nask Lummon (Myrmign 27 610) as recently separated \(\begin{array}{l}\) asserted in the State, collections belong in \(U\) Starps.
 Subpa, they Arth. If on Justice than the State of the State
- - *** STRANUS PERFORM VAR. Medicaginis. Pass.) Arth. If on Medicage astron, Univ., Man. A little rivet of allfalfs was first found in late Sept. and in Oct. 1931, but it has not need found in speciesfully years.
 - Trifelis Heav I: Lor var fallens Deen i Arth. H. III on Trifelius seedinin and P. peurne. Lury to Wattageg Bloch. Man. Rost on red dover was first found in Man. in
 - 1922. It has persuited and enuses nome in ur, around Wanapeg. Acea have not been seen. It is not recorded as meetern Man, a though it may have been overbroked, it is not yet known o Sade.

 Telfolds was hybrids (W. H. Davis) Arth. I. D. III on Tryckian kportion across Man.
- remain was represent the 31 Davidy Arth. 3 Dy 111 on 2 replectual Splittins incree Mannnier 1-6 The Piss, 1988s, Ingl. 4 Defenation, Millera. Rust of shakes convert is sunception, it was collected at New Je in sestions Man in July 1921. Rome injury may be caused by the read. Acts are conveying in Man, and have been round at late as Aug. 21 they were also reflored at Melfort, Stool.
- Trifolis var Trifolis-reportus (Liro) Arth. 1. II, III on Trifolism repeas, Univ. and Winnipag, Man. The rait of white cover is fasty common around Winnipag. II was first collected in 1201. Access are common. Records of the distribution of this runt in Man. are
- not available it is reported from Alberta but has not yet beer found in Back that no the programment of the
- Mountair Man, on A frateons, Portage in Prairie and Univ. Man, on A sono, Story Mourtair Man. Thus rist was rather separation to A somple frateons grown as a bedge at Portage is Prairie.

 -- Phatalogical argins, [carl.] of Ton. III on Patalogical and Objects (Comp. Cypress Hills, Sade.)
- Treatesteroronis, Farl.) dr. Ton. III on Painlendroum objephyllum, Cypress Hills, Sask
 The rest may be L. offinie Arth., according to G. B. Cummins. In either case, it is a near
 record for Canada.

74

AURICULARIALES

Auricularia suricula-Judas (L.) Schroet. On decidious wood, Berein River, Victoria Beach

castward

Platygione firstcole Schrost. On horse dung in cuture, Univ. Identification verified by

Gladys E Baker. She found the snorce to be slightly under the quoted size, that the hypo-

basisfia were still morphologically distinct even when the epibasidia were mature, and that the proposium has temp consecution.
Saceoblastia pinneola Bourd. & Galz.
Garden and Regers, studied also by Glodys E. Blake and Regers, studied also by Glodys E. Blake (Ann. Misour Bost Gard. 28.0), who has transferred its Oblitosticas. This as the first

American record of this species.

TREMELLALES

Eichlariella agenulosa (Berk. & Cart.) Burt. Five collections on bark of Populus, Cross Lake, Sonn River and Univ

Exidia Zalba (Lloyd) Burt On deciduous wood, W.nn.peg. glandulosa (Bull) Fr., "Witches' butter" Common on branches of Populus, Salis, etc. in Man.

Naematelia mucleata (Schw.) Fr. On dead branches of Betala abbr var pappyriera, Populus,
Filia americana and Fébruston, Univ., Victoria Beach.
Schwains achiev (Pris.) Birs. On Subo menches of First. Ribes, etc., Univ. to Victoria Beach.

and eastward in Man, on Populus ballowiders, Laze Washous, Sask, dot I Mounce and E. M. Waardend.

—inerustans (Prix) Tim. Not attemment entrusting grass twigs sto, Univ. It is evident that the fungan called Pashopather arbitralisate Lloyd (Mycological Notes, 67 1149) was

young or almorroad S. sorrostons.

Tremella lutassens Pen. On Almus secura, Betula, etc., Brene River, Benora, Norway House, I nov.

mesenterios (Rets.) Fr On decaying wood, Norway House, det C G Lleyd retealats (Rerk) Farber On the ground in woods, Lviv, det C G Lleyd as T classrandre Lleyd, Winnipes, det W C Coker

Lloyd, Winnipeg; dot. W. C. Osker - saccharina Fr. var. folfacea (Brefeld) Bres. (Liocella foliacea Brefeld). On bark of dead
Abits behavive and Prime Backstone, Berns River to Clear Lake and Kenora.

-- Princonn Berk. On faden Populus, Univ. Tremellodon gelatinours (Scop.) Pens. Occasional on occaying stamps, etc. of confers, Victoria Basab sestimate.

Tulamella Eschieriana Bre. On fallon dendituus vood, l'n.v., det. M. K. Noloes, en domyed word of Brisin oliu var papprifere, Victoria Benth, det. L. O. Overhouts. D. P. Rogers (Ann. Myorl. 31. 184) inclinites T. Eschlerians as a synonym of T. riolea (Quil.) Bouel. & Gals.

DACRYOMYCETALES

Calocera cereas (Batech) Fr. Common on dead Batela, Populus, etc.; Clear Lake, Univnorthward. Spore declarge in specimens from Winnipeg described and illustrated by Buller (82, vol. 11).

"special CPRA Fr. Recording from Nanorea.

Dacryomyosa aurantsus (Schu.) Farl. Common on coniferous wood, and cit milway tea werewhere in Man., probably the species at Labe Waskeris, Soak — delicutescus (Pu.1) Duby. On old constress wood, Norway House to truy. See Buller

(94 and 82, vol. 11)

— Ellisis Coker On bark, Kenora.

- palmatus (Schw.) Burt. On a confer, Clear Lake.

Guestots elegans Burk. & Curt. On Ialien deer Newsonie. Univ. Proit-body periods then

spathulate, tan-oclored, spores 13-18 × 6-7 µ, yell/wasti-byslice, finally 4-ceilfed.

— helvelbodes (DC.) Fr. (Eprocytalus rayles (Jacq.) Bref.) In deep massy woods, (Clear
Lake, Pioswa. The three collections examined have been alike in producing as areaapathusate or inequat-thispost friestification 3-8 ceit tall, including stank, and 2-4 cm. wide,

pileus and atem soft, translucent whitish, becoming very pale yellow-tan, handla with long sterigmata; mature spores 9-11 × 4-6 µ. G. W. Martin considers it a form of G. helrelfoldes, and points out that Lloyd (Myc. Notes, Fig. 2178) illustrates a similar form. Martin (Amer. Journ. Bot. 23 628) decides that the correct name in Phioscolis beliefloides (Fr.) Martin.

AGARICALES

- Thelephoraceae*, including Exobassinales and Hypochuseuse Aleurodiscus searinus (Pers.) v. Höhn & Litsch. On bark of Quereus macrocarpa, La.v., coll.
- I Mouroe, det. M. K. Nobles.
- amorphus .Pers.) Rabenh. On bark of a consier; Berens River and Kenora, dat. E. M. Wakefield and M. K. Nobles - ceruseatus (Roes.) v. Höhn. & Letsch. Comzoon on dead Populus, Sanx, Ulmus americand
- and other deciduous wood in v. Burt records it only from Europe, Manutona and Oregon, he wrote (May 4, 192.) that Manitolia specimens sent him were the first American specimens he had seen. Fourteen codestions are now in the herbarium at Winnings. - priseocanus (Pers.) v. Hühn & Litsch. On burk of old Querrus macrocarne. Soliz ?assueda-
- Insides and Print mileson. There Consophora 7arida (Fr.) Karst. A somewhat doubtful specimen on fallen log of Picca sp.; 13
- miles east of Brause our -- byssoides (Pore) Fr. On dead, occasionally on charred, wood of Piosa sp., Pittus Rankssone, Popular spp., etc., ten covertoon all in or near conferous areas around Lake Winning and
- m eastern Man. cerebella Pres. (C. pissoner Olchum.) Karst.). On fallen Picca ap. Populus sp., and Thuys
- occidentely, Universitiesed. This species was very abundant or popus poles supporting a root cellar, and appeared to contribute to their early collapse. Kalmuse (Peck) Burt On old wood of Preus Bunkrunns, 13 miles east of Beausenour This
- to a pure goerice. olivacea (Fr.) hazat. Common on decaying Abres osteomes, Picca 85., occasional on Populus in conferous areas. Beretis River, Clear Lake and eastern Man.
- pelyporoides (Birk & Curt) Burt. On temferous wood Keners, Victoria Boath. - sufficiate (Peck) Massec t Hupochnus Sarabrusneus Dearsons & Bishy, 71 60, prayon to be a
- syngerym). Common on old wood or boards of Flora so. Priss so, less common on Ager Neputoto, Populos sp., Cicar Lake, Univ. to Victoria Beach and rastward. Certicium albostramineum (Bres. (Overh.). On old root of Picco, Whitemouth
- -- arachnoideum Berk On old conferous wood and Populas, etc., Norway House, Univ. Victoria Beach argentatum Burt. On branch of Francisca remassingues. Univ. Previously known from
- --- Barkeleyi Cooks. On old wood of Picca, 13 miles cast of Beaumypur
 - blesfor Peck. Three collections on very decayed Alsos balanties, etc., Kennes, Victoria,
- bombyeinum (Southerf.) Bres. On old tomferost wood, Clear Lake. - Instrumedaum Overhouts. On old bank of Pinna Bankmana, Victoria Beach, on bank probably
- of Popular, Univ. Described from Pennsy,van.a (Mycologia, 28 510). Regyrs (Univ. Iowa Studies Vat. Hut. 17 15) places C balraceleum with Halrachandrum caronalum (Schoot) Door
- centrifugum (Lév.) Eros. On bark of Quercus macrocaron and wood of Viburoum, etc., Stony Mountain, Late
- -- confluent Fr. On dead limb of Triba americana, Univ - avustaceum (Karst.) v Höhn & Litech. Common on bank and wood of Cratergus, Frazious
 - pennasionnes Populus, Prunus, Quercus reacrocarps, Valvamum, Salica, Univ. and vitinity. On uneven substrate the fungus may resemble remounate Hydrogreae officementum Contro & M. On Jorid was and Peopletonia a and Heavening and Kennes.
- Based collections have been studied curricity by Drs. Mildred Nobbe and Irone Mounce, who have forwarded words in reason cases to Dr. L. O. Corrholds on Max B. M. Walefeld. There collections are listed without the notes. on characters of the fange, so that these four specialists may publish their own observations.

Continue fematratum Overholts (Connectors over Burt). On old four Newsday Paradus Theisenvilera I Issur asserirone, I my on Piera, Berens Rever, on deciduous wood, Vistan - filicinum Board. On old Wits redoust, W paper

- Bavescena (Bonoru) Masser On decayed Populus, Clear Lake - majecturum by 1 Burt. Common on old Abus business and other rendering mek or wood: Victoria Beach, castern Man, one collection on cid decidanus wood, Univ.

incrustans v Holm & Litsch. On deciduous wood, Univ.

Investigas (Schot) Bros. On deciduous wood, Koncon.

Inchescene Berk. On Populas, etc., Beausciour, St., Norbert, Univ. - Jave Pers. On bra they of Parar Visita, Univ. on decistaous branch, Kenora. - Reidocearuleum Kanst On dead run fers, Birds H I and Norway House

- Iuridum Bres. On Popplus, etc., Univ and Wanneger, - pelliculare Karst On old Atacs tentermen Brinto ofter year paparriess. Jun. perus. Pieca an.

Prince Backgroup and I prove morrowey. Berens Rivery to Wennines existinged. - polygonous Pers. Light collections a co-legis of Provides I no acceptance

- puresum Berk & Curt On no Pepulas, Univ. radiosum by On bank of confer: Virtone Brach

research Pers. On old hall x, I thus my reman rite , Strany Mour to a to I any wahallum Burt. On oht Populat and Ourcess recovering I not

soutsillars Berk, & Curt. On two of Posts us. I nov

- santantrianals But. On old * forestrong also on Overes moreover. Two overeses ste , Univ., also at Kenten. Type cultected at Univ., Oct. 19, 1922

- nociatum Re 4 Or have expersion were. Norway House unit on back of Trans seconds. na one mucht infer from Burt. Ann. Missouri Bot. Gard. 13, 192). - Solani Pr . & Delicer Board & Code Not meconing on longratume of Segment interpress;

Man and Nock on stone of I propriescous resideatons, Warm peg. Thus, the "perfect" stage of Rhazorionna Solena, as often included under C. ingune. - subcorporatum v. Hohn, & Latesh. On stormyol would of atture between or Powa or both,

Berens River, Norway House, Victoria Beach vagum Berk & Cart On bark and wood of Abors believes, Prior Bankeson, Those oreidenteles and Piers, Berens R ver, Norway House Victoria Brack, eastern Man

wellersum Fill & Crapm. On tid Populus and Shlir, Univ and Winnipeg, Mun., Suskatoro, Bask , cell 1 Meaner

Craterellus Centharellus (Schw.) Fr. Under conifere, Ingolf, Victoria Besch. elayatus Pere, Fr. In conference woods, Berens Huser, Court Lake, Vectoria Brach 10-12 V 4.5 -on Internance (Princ) Fr. Amondast traver is on terms owns. Last do Bonnet. Norther Motors. Plients

infundibuliform, waters chieffed brown, by you up and stort upwage veiling, moore employlate S 12 × 6-7 u. Cynhalls canula (Halmar) Fr. On old from a of Previous services. Univ.

fasciculata (Schot) Berz & (urt Or sh) Aluse Pictor (urt uv. Pipulus, etc., 1257 to Victoria Brech and castward. 7-9 × 2-3 a.

- galesta (Schum) Fr On russics V van Plants gray, 4-12 mm, wide, hymemium somewhat wrinkled, snorm 7-10 × 4-6 a, pip-shaped - minutleauna Burt | Common on bark and coord of done Popular, Clear Lake, Surv. and

Vartoria Brook, Man., St. Greecer, Stock 5-6 × 2-4 at truscisons Pers. ex. Fr. On messes: Vivian. Plants whete; hymerous drying buff, spores apparently c. 5 × 3 m.

- Tilias (Peck) Looke Very common on dead branches of Tilia asteriousa along the Red. River

- ?trachychaeta Ell. & Ev. On fallen leaves of Quereus mecrocorps, Univ., Nov. 1. Plants. \$-13 mm wide, saurer-shaped, attached by narrow base, mycefual threads or hairs rough, cometimes almost entry, scores 6-7 × 24-3 m. This seems to fit the imperfective described. C snachusharss

Cytidia aslicina (Fr.) Burt. Common on dead branches of Salex, Univ castward. Conspicuous by its red color

- can records of an Exphantium on Ledum were found. It may be a form of E. Vuerenti -- Vascinus Fucket) Worns On Archaeunholes mus-arra, across Mar and at Satherland. Sask On Atsucu ap W vangeg on Vacco um app., around Lake Winnipeg
- Hymenochaete applutmans Ell. Between neuncles of Americachter alufoba, etc., Univ., Vectoria Breach The functus "artelectorates" the branches torother
- hadisferraginas (Mont.) Lie On dead branches of Alaus tooms, etc. Berrus Bourg and Insuen Bay cinnamental (Perc) bees. Common on old Populos. Suputercorres condentales, ric-
 - Berwis River, Clear Lake and along the Red River corrugate (Fr : Lév On branches of Corylus, etc., Uppy
- Curtisi (Nerk.) Mergen. On dead branches of Quercus macronarps, common along the Red Bayer emembaeria (Schw.) Massee. On turion Univ.
- rubignosa (Dicks) Lév Co back of frongose two or shrub; Winnerez, det L. A. Burt - talescina (See) Lév On deed bounches, Lessora Victoria Reports.
 - tenus Perk On nersoning Abus informer and Pipes, Clear Lake, Victoria Beach
- Hypochtus cenadensis Burt. On col constauts wood, I niv., on clistred Pinus Bankesma, Lac du Bonnet, on ohi duny slore the Hudson's Bay Rudway
- cervinus B rt. On old bark, Norway Home, not J. A. Burt. Type from Wastington - cinerascens Junet. On Populus, Luc du Bonnet.
- seriences Porty Burt. On democe Brisin allo var properties. Piece, Peroces, and Sality. Clear Laze, Univ., Victoria Bouth. achinosporus (FIL) Burt Or Pinus Benkingne, Populus, and other old deviduous wood,
 - Unio . Winnian matern Max. epiphyllus (Schw.) Burt (H. grenufesus (Feck.) Burt). On deciduque wood, Univ. on decaying
 - back, Kenters
 - ferruginous (Pers.) Fr. On old Purnam, etc., Univ. Victoria Beach. flavobrunneue Dearmess & Bishy See Cossophara suffecta!
- furnasus Fr. On fallen Abus balanuss. Prvu considente, Pinne Banknana Populas, etc., Clear Lake, Norway House, Univ castward fuseus Peri) by Ov muni, decayor, wood 13 miles east of Beausejour
- feathellinus Fr On oid Populus, Bequesimus, Clear Lake. - mallotafulyun , Peck) Bust . H subtresson on them. On decayed Reinle other yar sensystem
- Populus, and less most, Clear Lake, Vasv., Victoria Beach - pannegaus Berk & Curt | Burt | On decayed Piera, Populus, etc., Univ to Victoria Beach
- castward - milenus Boot. On decayed ?Panulus: Luiv. Type from Wisconeta, engagently com-
- subiningsus Bon. On old Programmediants, Clear Lake, no conserved Thomas, Hore A. rate spream. - spongiosus (Schw.) Burt. On more, Beattersour, on bark of frondest tree or strub, I not
- spongiosus var spanderus Burt) Bourd, & Gala On decayed *Pices Victoria Bouch - umbrinus .Fr) Ouff. On old Acer Nepando, 7Abou. Frazzous pennsaleanica, citarred Panas
- Bonksons, Popuson, Clear Lake, Univ. to Victoria Beach eastward Panianhara Allaschart Boss On old back of Panulus: Unus alutaria Burt. On old Abirs tolianoco, Picea and Marix lancing, Berens River, Victoria
- Beach eastward. aurantiaca Bres. On faller or standing dead branches of Alrus species, one collection
- evidently on Betula, Becons Rayer, Kennes, Norway House. candida (Pera, Lyman, associated with the comdul stage Asperits condide Pers. On old
- wood, Unsy, det. E. M. Wakefield. -- carnosa Burt. On old bark of confer (?Picca), Vivian.
- cineres (Pers.) Cooke Very common on dead branches of Arctium. Beisig older var popurifera Ametrochur alusfalur Frenzus nemudanum Guerrus marrarrene Sain Sumpheri. correct contributes. Ulcour congruence, etc., Berges River to Univ. engineerd, on back of Pinus Bunkmana meat Marchand.
- coccinectules (Schw.) Burt. On ald decideous wood, Univ.

Penlophora crassa Burt. On ald Popolus, Univ

 eremes Bees. On old Blacegous orgestes, Piros Bankesons and on deciduous wood, Souris, Swan River, Univ , Vivian, Victoria Beach.

- gigantea (Fr) Massee On aid deciduous wood, Univ

gebutoses Brec. On Picen and Prison Embriana, one collection on Salex, Beauseyour, Berem River Norway House guttuiliers (Karst.) Sace. Five collections on old Acer Negundo, Populus and Salex, Univ

mearmata (Pura.) Karsi. On old Frozensa pennighunico, etc., St. Norbert, Univ. Livida Fr. ex Burt. On falles Picca, cust of Besuscour. Lengispore (Pat.) v. Höhn. On old Acer Acquato, Populus, Salica and Ulmus omeracono.

Victoria Bearli and along the Red River

- ludoviciana Burt On Programs renorderance, Lady A page appears

 mutata. Pecki Bros. On old bark of Populas, User nuda (Fr.) Bros. On old branch of Jungerus cossumme, Viotoria Brach, on bark of Tilia susricone, Univ.

odontioides Burt. Type conselect on old frontions wood, Swan River. L. W. Miller considers this to be a syncovim of Odontia sylvers.

siders thus to be a syncopym of Odonta estipers, pacelina Overhouts. On old hark or wood of Abres baloamen, ?Picca and Populus; Beausejour, Victoria Beneti

Victoria Beneti pubera (F.) Base. On old Francisa passigiranica, Populas, Quereus suscroozepa, and Baliss; Care Roumescuefi Bres. On old Sains Tomosfolosias, Univ.

 Sambust (Prn.) Burt. On Fraximus, Jun-purus, and on teeth of old Hydracean on Salus; prebably this Lague on Carer and Typhs, Berens Rures, Kennen, Univ. annyulona (Fy Brns. On old conference wood) near Repres.

sampuinen (Fr) Bren. On old oomferous wood; near Renew.
 subcremen v Höhn and Litch. On stems of Symphonompor occulentate and on old back of trouton trees, Care

 aubastafurea (Karel) v Hôlm & Litsch. On consier, Norway House (material all sunt to Burs)
 twoute (Pat.) Massee. On odd Petus Readviewe Sandiands Focost Reserve; det. M. K. Nobles. Burt records to a rer.

velution (DC) Cooke. On bark and wood of Populus, Un.v.

Solenus amorrada (Pers. Fuchs) Controls on old Betala allo var 2020/fers, Cop.).as, Pranus.

etc., Norway Houte, Univ castward

- Sissing Peck. On ole patroles of Phorine modulous, Univ. Burt hists Peck's type only

River, on Aser sp., Indian Read, Sask Fasciaturn Schw On old Betwie oliv var popyrejere, Populus, etc., Mitodd, Kerway House, Univ.

-- Frastudorum (Pers.) Fr. On old wood in Man, sense locality unknows.
-- Fusevers (Schrod.) Qud. Comeson on Populum, etc. Victoris Beach, along the Red River and eastward
--- gausspatium Fr. On bank of decisions trees (Noorway) along the Red River.

hieratura (Wald) Fr On Betula allo var pappylers; Saskaton, Sask., en old wood; Henora and Univ., Mast.

Benora and Univ., Man.

- ochraceoffstum Schr. Reported by C. H. Kauffman as among a lot of apositions sent him
from Norway Bouse.

purpursum Pers. On Refuls. also war pappinger in Man. and at Saskatom, Sask; on
Portists, Pursus, Pursus Person, to., in Man. This fungus causes "Slive-Lost" of sullivated.

apples and pluns, and is semewhat injurious at Morden and Wissiper. The fungus has been found frusting on apple branches pruned out and thrown in a brush-pile.

— radiature Peck. On old wood, kaceta.

 -- reaform Fr. Very abundant on dead pranches of Populus in Man, found also in Sask.; rare on Salix sp., Univ., Man.

 rugosiuscustum Berk & Curt., partupu only a form of S purpresson. On old wood; Kennra, Norway House, Man; on Betala alba var. paperifma, Saskatoon, Sask.

acadar: Kanow Vintoria Beach warelforme Herk & Cort. On Salve etc. Roblin, Drev. Viota. Thelephora carryophylies (Schaeff.) Fr On sandy soil in conferons woods, Norway House,

Victoria Beach

entybuses (Pers.) Fr. In woods, Kenera, Norway House, Univ

-- Templtipartita Schw In woods, Univ - palmata (Scop.) Fr. On the ground in frondose woods, Univ

- terrestric (Ehrenb.) Fr. On decaying or charmed wood of Pinus Bankmann, etc., Norway House, Victoria Beach eastward.

Clararingone Clavaria abietina Pers. In coniferous woods, Ingolf, Victoria Beach.

apiculata Pr Common on coniferous wood across Man

7byssiseds Pers. On debris in nured woods, Clear Loke. exists a Halmah a Pore Constant as woods Linty cost and The form experts a sensiable

common in decidators woods along the Red River-- decurrens Pero. On more in sandy woods of Payer Bankrians, cust of Beautropur

-- flava Schneff. On old wood, Clear Lake, Victoria Beach

- formosa Pere. In mixed wooder Clear Laxe. - fumosa Peru. In woods, Konora.

- Isgula Schaeff Common in confermin woods, Norway House to Victoria Boach eaglward. - muscoides L. On decayed wood, Lae du Bonnet.

- Patouillardii Bree Common in deciduous woods, Univ. The mycolum whetens the leafmold.

partillaria (I.) Fr. fn conferous woods, Clear Lake and eastern Man pulchra Peck On bare soil, Norway House; det. E. A. Burt.

poxidata Pers. Common on old wood, Univ north and castward. See Butler (82, vol. II).

stricts Pers. On decayed wood, Norway House to Univ.

PROPERTY On real-most, Victoria Beach, determined with doubt he W. C. Coker. Piatillaria Telavulata Eli. On Jayes of Fraginus tennsiónsion and Patnilus balancifera presently factor and caught on branches of strubs. Law, Sect. 23. Stotes must, v. 10 ×

31-4 µ. P coeta Pera is samular - sulmagena (Mont & Fr.) Berk. On dead leaves of Pos protenna and other grasses, Univ.

Plants c. 1 min. high, whitish, clavate, mores bauling, reregular, rounceth, 4-6 a. - micana (Fern.) Fr. On dead stems of Arctium, Convolening semion and Urtim graphic, Univ. A fine little species, red and shippe, mores 10-11 × 6 u.

- typhulaides (Peck) Burt. On old stems of Epolobusu angustylehium, Norway House. Plants small, waxy-whote

Pterula penetiliata Berk in Lloyd. In woods, Whitemouth, dat, C. G. Lloyd, Clour Lake, det. as probably this species by W. C. Coker Typhula Silformis (Bull.) Fr. On fallen leaves of Populos, etc., Univ., det. E. A. Burt.

- gyrans (Batsch) Fr. From schrotis on dead leaves of Ulway americans, etc.; Univ., det. E. M. Wakefield - Tilenteels Killern. On decaying decidings wood. Date. Plants whitish to vellegeable

spores c. 6 × 2 µ Seems to fit the description in Zerts. Pilikunde, 18: 103. advancerbing (Reich) Fr. Abundant to accident and soil in an ire-house. Heavy Blender velloweb-brown Typholae arise from exager-brown attentia on to 6 × 3 mm., approx 10-12 × 4-6 a.

Hudnaceae

Authoribium vulcare S. F. Gray (Hudaum Aurisosleium (L.) Fr.). Not uncommon from more or less buried cones, Clear Lake, Victoria Brach and eastern Man. Caldesiella ferruginosa (Fr.) Sacc. On old Tropulas, etc.: Victoria Beach, three collections - wieldie (Allh. & Schw.) Pat. On old hark of Alice halancer. Victoria Beach. Calodon caerulaum (Horn.) Quál. Under confere, Norway House,

-- ferrugineum (Fr) Quél. (probably; near C, sprobiculation). In woods; Ingolf.

Calodon variocolor (Sect.) Quid. In conferous woods, Ingolf, Norway House. Determined as Hydram reasons Sthultz which Boardot and Gazan sociade under C surrevolor, also

stated to be the same as H cyclanionus Schaeff , but Bourdot and Gals a keep that species prosmte adultinum (Fr.) Cuil. Common on the ground in conference acade. Luctoria Basels mat-

monatum (Batach) Out). In mixed woods, Ingelf, Ont., Lake Wastesou. Sask Dentinum repandum (Fr.) S. F. Gray. Common in conferous woods, Norway House to Victoria Beach rootward.

Grandinia Brinkmannu Box) Bound & Co.z. Or or Populus, I my

- farinacea (Fr.) Bourd. & Gutz. On old dendaous wood, Un.v.

halvetica (Pens.) Fr On fallen mark of Ulyma supersorne, Wanning, Heriesum ceralloules (Sco.) S. F. Gray, No. outston Lawter, and probably at Victoria. Besch

Inconstum (Level) Banker - Occasional on old wass. Clear Lake, Laky, Victoria Brach. Shores from shere houts 4-41 × 34-4 a, smaller than in H. corollaides Hydnum albanigrum Perk. On the ground A ctions beach. Those servin species self in

the old gover Hydrom doubtless have been or will be transferred to other general surveighvilleum derk & Carl. In is een Park Witness, det & A. Burt ferrugipes Cour in remierous works, Various Beach. A fine species puras largelavenur a wa fue: then sprang-built a, a see palled at the tips, stem tur's brown, spoten

rough substabase, 4 å u. - floriferme Schaeff Victoria Beach, Indutat not noted.

- Kauffmans Pers. Oe old word, Wranger det U. Laryd who (Myc. Notes, 67 1144) enrouders it prepably a strongers of H. (Nicochercount) pulch erforam. no magabula Fe - Ender conifere: Norway House, cut. E. A. Burt.

- scrobiculatum Fr On the ground in mixed woods, Victoria Beatle

Mucronella minutesama Pel. On tark a personne feer Wangery. A H. R. Buller endported a small amount of the species on Oct. 16, 1909, on the bank of a standing, probably living, tree of was determined by G. F. Arka sor. It has been sought many times since.

Odontie alutaçon fr i Bruni & Cus. On the bank of Fanos combanture, West Hawk Lake - arguta (br.) Out. Componential for Variable Popular State etc., Cr. v., Winnipeg

- blooler (Fr) Bres On old wood of Papulus, Berens River - cilielata (Berk & Cart) I W M see On decayed week , Victoria Beach.

-- erusteen (Fr) Quél. On old Populus, etc , Un v

w fimbriata (Pers.) by On doesn'ng farinting remainders, etc. Kenora, Univ. Writinger,

Spaces Hourd & Gale On doors or were. Money Dr. Miller writer that the streets was not previously recorded for North America. fusco-atra (br. Bern. Common or old Popt, as, etc., Swan Rever, Univ., Winnipeg.

hydroddes (Cooke & Massey v. Hohn. On old back, Univ., Vivian

- Inctes Karst. (sensu Litschauer). On old Populus, Univ. - Hyrda Bree On old deciduous wood, Univ.

- manifiles (Fr. Bree. On developing word is Man, probably at Univ.

- Overletil Bourd & Calz On decaying wood, Univ

- setigers (Fr.) L. W. Miller (Panaphre setters (Fr.) Bres., are also P. adaytundes). On *Acer Newson, Albur vaccano Posso, etc., Berens River Kenura, Univ.

- uda (Fz) Bree. On old ?Populus Liniv Oxydentia albeviride (Morg.) 1. W. Miller. On Abus bulgamen and on old Polyporus Schiermitrii at hase of 40ser bulsumes. Berens River Victoria Beach.

Tetenodon (Pres.) L. W. Miller. On old deciduous wood, I my. Spores not found. Philebia mertamoides Fr. On old decidacus wood and burk, hymera, Univ-

stressessenata (Schw.) Lloyd. Common, especially on fallen Pupulus, also on Betula, Power ate along the Rad Roser Victoria Beach Radulum casearium (Morg.) Loyd. Common on Populus, etc., Univ. Victoria Beach. eastern Man.

- spathulature (Fr) Bros. On old Aur Nagunda, Populus, etc., Univ., Wandpeg.

Sarcedon Fernifeum (Kamt.) Bourd. & Gale In conferous woods, Ingolf, Victoria Beach. This species has a bitter testo.
— Imbricatum (Pr.) Qud. In conferous woods, Clear Lake, Victoria Beach and esstern Man.

Imbricatuum (Pr.) Quél. In confereus woods, Clear Lake, Victoria Beach and eastern Man.
 Undarveodi Bahbar. Under confess, Victoria Beach.
 Staccherinum enhusenum (Pr.) S. F. Gray. Common ce. wood of Populus and other deaduress trees. How to Victoria Beach seatoness.

pulchertinum (Bock & Cart) Banker On old Betata atha var pappetfera, cic., Victoria
Beach:

-- pasillum (Bret.) Banker On branch of frondose tree or shrub; Victoria Beach.

-- sententrionals (Fr.) Banker. On old Betala allo var vararilers at Victoria Beach, on

Acer Negande at Wissespog (Stuttrated and described by Builer, 82, vol. II), rarely acen in Man. satulosum (Berk & Curt.) L. W. Milder. On old wood, Swan River. Apparently known only from Albhama. Joon. and west centrel Mantiolis.

Polyporaceas

Dandalas confragosa (Dict.) Fr. Common on Salik: in castern Mon. The form known as Trustfer releases. Fr. is and present. D. confragos may be a "winter annua. in Man. 182, vol. II. 1,71.
Salik: II. 1,71.
Trustfelder (Butt.) Fr. Common on Ager. Noncolo. Man. loss stammon on other dand.

 untaileder (littel) Fr. Cammon on Aeer Negurini — Minn., Inna common on other dead decisions receive, on Arias stresses. Revern Rever and Celler Lazer Man, on Billes sites we properform and Popular coronisation in Bille. A fallins Aeer Negurini may become covered on the lower size do sange the volder higght of the transit. Billet and Colormen (1,05) food of the association of the day conditions legal as visitant on the dark at count temperature for Previous canadrams. Birtist. In dead transition of care. Viscosis: Ballis, and other decidence.

Fevelus camadense Alota. On dead transition of Acc. Negwork, Salix, and other decideous trees to Man., on Berom other var pagerifers. Kategora, Sasia.
Pittulina bapatica (Schard): Fr. One collection on Georgia invarious na.

coll Dr W J Grant

Ferres applanatus (Pers) Wale Common on Populus and other deciduous wood in Man.

and Sask
constitutes (Fess.) Gill. On dead Viburous Lenisgo, Lzov
connectus (Weven, Gill. Octobrosal meng the Red River on the back of truess of dead

Acer Negwork.

— fermentarius (L.) Gill. Common on trunks of Beloks olds war popurativo, eventorial est

Termentarius (L), Citt. Common on transis or network over preprietre, evaluated at Popular resultates, a Max. and Sake illustrated and network on Bullet (R), vols. II and IV)
 Fulvas (Seec.) Citt. (P. ressurere (Pers.) Univa). On Prunsis escrivene, Menta, Univ

 Tulivas (Scops), Call. (*) posterier (Pers) Loyes). Un Friends esteriesm, Menth, Dan-- Ignarius (I. O.G.). Common and often quiness on Birds and var prayrifers and Populse freenancière in Man. and State, auto on Salvs upp. in Mar. and on views unosno and Bitals feetivoles in State. Illustrated, and an investigation of apore ducharge in Man. reported, by Booles (Ed., vol. II 121).

- sgriarius var nigricane Fr Also common or Betula alba var pupprifera and Populus in Man and Sask

 Pini (There) Lloyd yaz Abietis Kanst. On Picca around Lake Winneyeg and castward.
 pinicola (Sexed.) Cooke: Constant on dead trunks of confern including Africa belationes, Picca capacitiess and Pinius sop in Man and Saik: A form with pick, overstooked pilet is

common or Populus betsamplers in conference areas in Man., and has been found on P tremstente and Betsale sp. in northern Sask. Ribis (Skumsover) Cooks. One coloration at the base of Piles vidgare; Univ

Ribis (Schumscher) Cooke. One edication at the base of Piles sulgare; Univscutellatus (Schw.) Cooks. Not uncommon on data between at Acer Repundo, Amelanchier absolute, Celestrus amelians, etc., in Max.

abstyfelin, Celistriau sennifene, etc., in. Man.
— subressus (Weis) Dvertibitus (Transcen subresses West, T. cornee Auct. Amer.) Common on dand ribnes balannee und oliver coniferous woods, such as rathray tacs, in Man. and northern.

Sant Lenzites betulins (L.) Fr Common on Bulsho albo var pappyrifers, occasions, on Pepulus, in Man.

44705-3

Lenxites snapisris (Wod) Fr. Common on conference was a Majo and Sark. A coffection from Strain River with very thin price may possibly belong to be above.

Takken Pere 1st. On developing to ensure conference covering Mayor. The and the

preceding species were studied by Dr. Messure and Miss Marine (Can. J. Research, C. 14-215).

Merukus arabigaus Bork On bork of confer, southeastern Man, cell I L. Conners, det E A Burt — aureus Fr On falsen Piece, Clear Lane on Piece Bendenran, Verteria Bende, det Dr. — aureus Fr On falsen Piece.

- confluent Schu Genziena, ou old deciduous woos. Univ

- corium Fr. On nunch of seraduous tree or size of Univ., dot E. A. Burt. - fugas Fr. On old Provis Hankanson, Standilan & Forces Reserve, det. M. K. Notiles.

- Ingramma (Wull) Jr. Vet common in Man, and Surs. Dry red queed by the fongue enseed \$2,000 damage to a security flow in Manuage, A destroyed the boarding on the walls of a cellur in Jorkton, Nask, and the fungue has need collecter, at Regim Sass. These are the only definite record.

niveus Fr. On dead reposites of Unic recover, etc. persons to Norway House and Winnipeg, Man, at Prince Albert Sast, coll. E. C. Stahman.

pHosos Burt On decayed wood, Norway House, dot E. A. Bast

- transflows Solvad. Common on dear Retain also ver payatiero Popu as, etc., norosa
Man.

Polyporus shietinus (Thrite) Fr. Cumont on dru, wess of confers wherever they gree a Man and at Lake Wark was Surk and afrequent or one From rules yet tesediatus, Wild J. Pr. Cumpus in the Parising deliveration. Previous Res. etc., in Man

and Sass. When growing in the sack on popla supports as a rether the piles are almost white

athellus Prek \alpha tuncurren ir dend Eileka obta var sepyrifem and Popte is, Norway Heuse to Univ.

albicape Peck. Two was. collections of this rare species at 1 nev, and one at Borons Rever.

It appears about the end of July

ancean Pock. The rare species has been collected up bark of dead one fees at Loroll.

anequalized, it is not not not represent the treat extension in tank of their consistent of their most experience of their most extension and between purposes of their most extension and their most extension.

June 2

— betalinus (Bu.h.) Fr Consum or Reads allower properties so content Man, north to Norway Rouse, and "northern Sade. The space declarge in Mar, agains a the sutuning.

is interrupted by winter, and continues in the spring.

— biforms (blots) Blots. On deedlosus wood, Korway House and Winnipeg.

— brumalis (Bren 1) E. On fairly therefore of House after yet annual to Decreas successives.

etc., eastern Man to Univ. and Victoria Beach.

canasus (Schrod.) Fr On decayed woos, Korvay House chrasherinus (Jacques) Fr of uncommon on dead confers, Populus, etc., eastern Man.,

User, and ground Lake Winnepeg circinatus Fr. On the greand, growing from bursed wood, Minaki and A cloric Bearbe-concluder, 1882 by Fr. On fallow branches of Ulasus encreases, not uncommon along the

Red River at Winnipeg, but not yet found in the more carefully surveyed woods of the Univcutioutaris (Bull) FF. Coc colorism, as Vistoria Bush = 1917. — dichrous FF. Batter commess of dead Sal x and other decisions trow along the Red River

and contrast.

— stepans (Dac.) Prespects on dead, suportaries partially burnel, beauties and wood of Ages Newmale and clair decidious trees. Newsay House to Univ., and at Sean Rayer.

— Shell every reputes ann current consistence on dead conders. Victoria Board, July and Sept. 1927.
 — The rather striking species scene dead conders. Victoria Board, July and Sept. 1927.
 — Sheriferia Sund. Two collections on dead Postura Univ., July and Aug., 227.

— furnesse (Pers.) Fr One collection on old decideous wood, perhaps Ulmus americano, Univ.

glieus (Schw.) Fr. On dead Acer Neguedo and Saliz, Univ. Not commonly found in Man.

- Polyporus glomeratus Peck. On fallon Populus, Univ. on stump of deed note tree, Winnipeg. This is a comewhat rare species, see Overbolts (Torreys, 17, 202).
- guitulatus Peck On dead wood probably reniferous, Banks Hall and Manax P alistates a Pr. may be the same
- himsutus (Wull) Pr. Common or Popular recordance: Luma assertance, and wood of other decideous trees in the castern half of Man.
 manuta Peck. Two send collection on stamp and wood of Prees remoderate, Clear Like,
- det. I. Mounce. (See Kaudiman, Myeclogia, 18-28.)

 melanopus Fr. At the base of Se x, Char Lake; apparent, also sometimes from bursed.
- - ovinus (Schoeff) Fe Not uncommon a damp seasons in the grown (provailly from outifd wood or roots) in conferous areas at Minan and Victoria Beneti.
- Pargarmenus by Voy common on dens, Heath also var papperfera, Papulus brinewittera, Prevadente et a amous Man and in Sock. The layers um as often a longer purple teller, especially when it mattern in hite nutures.
- personne (I.) It is controve on much see a conferent areas a contern Man, and at Clear Lase. The Lagers is often, but not mecessarily on hurst areas. It we safely arrives from worse, under growing, art their point has risk from newtigrates on Man.
- piespes Fr. Comation zerous Man, on old decederus, and perhaps also con ferous, stumps and lags.
- planellus (Peck) Face Cumman on fallra limitling of Amelianther similation Querous sinceorga una other freedom species at Univ., St. Norbert and Victoria Beach.
- --- published Schulmach) Fr. Common on dead word of decilions trees in Man., and coltested on the signed base of a living tree of Priorie name. Univ
- resimosus (Schmid) Fr. Race on sturps of Querus marrier po or logs of ?Arer Negunio, 1908.

 1908. Schweinsteil Fr. Occosorud, but when present often large and conspound, on or near
- strongs or trusks of Africa business. Para countries, and probably other conformation. Laws and Victoria Beach estimate.
- *** Americal Reals Three collections on oid wood of Populas, Amelianshire, etc., Univ. and Victoria Benth.

 ***Burnesses (Bown) Horsess. One appeirure, and that not very autofactory, collected at Wiene and Collection.
- peg in 1907

 squarmousu, (Halt.) Fr Rust on decadate frees about Winnipeg. Not seen in recent years,
 but Dr Buller, who knows the success also in Europe formerly found a few small specimens.
- but Dr. Buller, who knows the species also in Europe formerly found a few small specimens.

 Who peg must so near the northern limit of this species.

 Substantiacous (Murr. Libert. This reviews of found of P. serconstruct, is factly common ex-
- Populus, Lovy suphureus (Bul.) Pr Very rare on decidants trees, is, Man. Two collections only, both few Sim Park, Winnesse, in 19.3 and 1933. One or two other reports of this fungus from
- Man, but Winneyeg is apparently near the limit of its range.

 Teaphroloucus Fr Two spacemens, from Munaks and Victoria Beach may belong to thus needed.
- turishine (Gincov) Llord. Kelerdis common is and in Max. From the Forth Bucket boundary want the Parlium Hills restricted to Crimace, Oscillar Conference and Brown Brown, and "model seem in Boar from Studieston methoses. Olimace Odynosias, Brown and "model seem in Boar from Studieston methoses." Olimace Odynosias, Conference and Conference and
 - poughed up a refevolum about 5 inches, a disancter as the sommer of 1928, he set of about nee-thof and planted A. a sightly damp earth, the larger portion was dried for a time, and then also planted, and both were left so a basement. In the spring of 1930 the smaller was — a

perton produced a price if or 4 such an elements, the large portion produced a price is include an dissert to the order partiased of 100°. The darper portion as well in an jet, it is included as the contract of 100°. In other portion we will be a perton a state or the number of 100°. In the time only 24° return is changed as the state of 100°. In the contract is a state of 100°. In the contract is a state of 100° and 100°

from Man and Yank, Dut A doubtless certain so to its North Dakint and porhaps an Alleria. Pulyporous tolapidesses (Peles: Overloite: 1 verywhere on coad branches of deviduous trees and administrational feet Argundes Comprising afforement. Celabries members: Prunta super, Pyrus ap. and Lieux conversast in Man. Almas recome and Americanism ringlish at Buckstore, Bank, Canagaman ap. at Indual Bend, Shek and Pales par #18 (Torgo Panar

umbullatus (Pres.) Fr. One cellection of the "compound" Polyporus was made a. Wincopeg
Baach by V. W. Jackson. He found the pilet to be elible
- unries a like d. To assume Morello. This rare scores was codected at Wincopeg in 1908.

and at Vetoria Bareli i 1931 del 1. O Corebida Bareli Bareli nel pogi il 1963 del 2. O Corebida Bareli i 1931 del 1. O Corebida Bareli i Bareli nel 1931 del 1. O Corebida Bareli nel Bareli nel Response i 1931 del 1. O Corebida Bareli nel Bareli nel 1930 del 1931 d

variant by Common along the Bril Revry and found at Clear Lake. Matterk and Victoria Board. The language senter one approaches: Provincepose in appearance. It grows from buried atticks or roots, and a smally found in July.

webstraus Fr Consison on Popular, Salor etc in Man. on Popular transferior at Sutherland, Sask.

— weed-solor (L.) Fr On dead wood, sometimes on living trees, of Pranus nigro, Pyrus bacosto,

Quercus macrocorpo, etc., across Man

— vulvatus Peck. On Piece cassificous, rather common at Clear Lake, found asso at Ethelbert
and Sean River but considerable search has *sured to locate it around Lake Winnipeg or

enstward.

Peria ambigua Brea. One collection, rather visuag, no Populus, Univ.

- ansierina Fr. On old decidious wood. Univ.

- hornalis Overholts in litt On back of Populus; Univ.

- calcas Fr. On a burnt log, Swan River

- candidissions (Schw.) (noise. On sid deciduous word, this, on chi Pare remadencia, Berens River.

— corticola (Fr.) Cooke. Ratner common cu old bark and wood of Populus, and probably older decidosta trees, Univ. and Winnipeg.
•aupora (Kanst.) Cooke (P. altrassio Peck). Common on bark and woos of Populus, etc.,

Univ. to Victoria Beach and eastward.

— ferruginess (Schrad) Fr Common on dead Acer Negarido, Saliz, etc., along the Red River and at Decens River.

- sernata (Peck) Secc., or near On old deciduous wood, Univ - prunicola (Murr.) Secc. & Trett. On dead branch of Prunus, Univ. (See Mycologia, 23: 119.)

pulshells (Schw.) Coshe. On charred conJerous wood, Yeysan.
 punctate Pr. Fairly common on old Populus and Salis, Univ. (See Mysologia, 23 120).
 purpures (Pr.) Coshe. On old Populus, etc., Leve and Winnipeg.

resticulata Fr. On bark of decayed log of Fopulus, Univ.
 rhoddlaft Fr. On bark of "Populus, Swan Runer. This section to be the first record of this species in North America.
 species in North America.
 species in North America.
 species in North America.
 species in North America.

apparently on old decidnous wood, Univ. to Victoria Beach and eastward.

- Ports semilinets (Frek) Cooks. Two collections on decaying wood of Populas; Univ-Vaillantii Fr. On rotted conferous timbers and rashway tites, Univ. and Winnipeg, Man; apparently this species on Praximus competers; Pike Lake, Sask.
- versipora (Pere) Pr. Two collections on dead Popular, Univ.

 whiteels (Schw) Conke (Francisc tensor (Karst) West). On old Salar, Univ., on charred con-fronts recod, Victoria Beach.
- weathing tomorous Nature On old stump of decidacias tees, Univ
 Parenthelium furbrintatum (Pro.) Pr. On decaying wood of Betule albe var papprijere, Populus, etc., Mank, Vetoria Beach.
- Transites americana Overholds. Common on railway tots and other conference wood, Univ., Wirmpeg and castward. Moutice and Macrae (f. an. J. Rewards). C. 14, 215) found that suttures of this species would not common with cultures of Leaster surround.
- biapule Bigil. Consisten on old decidiosis wood, probably mostly Populas and Balls, across Man, en used P foliamitive, Form Lake and Bt. Genger, Sask., On drad P trenslateds, Langur Back. The form known as P. Prekts hability a semistance found. Probable Mark & Ourt. Do. Louised wood of Procisio. Him a semistance found.
- aurialis Pr On not back of a number, Victoria Beach. Thus nather save species has been found but once
- suaveolens (L.) Fr On diseased but hving Salis, Oakville, Univ.

 Troott Berk On dead deciduous tree, Gunli and Winness.

Boleraceas (Contombr) 1-1-1-1 Foots

- Beletimus earipses (Opatowski) klots. Under Pices, and possibly other conifers, Clear Lake, Vivian seateward.
- -- paluater Peck In a Sphagnum bog, Kenora.
 -- pictua Peck Found only at Kenora associated trees not recorded. TV H Sucil states that it grows noder Penns Streshu. This tree is not uncommon at Kenora.
- --- apectabilis Prok In hogo under Larur invictos and Pures marsinos, Birds H.B. Ingolf, Nerway House.

 Bolstus brevipes Peck.—In wesse, Munks.
 - castaneus Bull In sandy mixed woods , Victoria Beach
 - chrysenteren Bull. Oze somewhat doubtful collection in manty woods, Victoria Beachedulla: Hull.) Fr. Under Pous Bankriana in manty son, Victoria Beach.
 - fellows Bull. Growing on or through very much sleenyed wood, Victoria Beach.
- gramulatus J.-J. Pr. In sands woods, Let d., Recuest, Vettoris Beach.

 —mirabilis Murrill. One spreamen was found m maxed woods at Vettoris Beach. Dr. Seell
 reports. Mycelogie, 28, 463) that it was previously known cally from Washington and
- reports: reyecospa, zn. ets.) toas it was previously known only from Washington and Oregon. Sporter very insig, 14 28 X-5-8 and the results of the results o
- paperatus sum, probably in leaf mod to freations woods principally of Populus transleudes Univ. This was called B rubindius in "The Furgi of Manitoba."
 pheeddus Bonord, probably. Sent in from Impol
- scabor (Bull.) Fr. Fardy commen in decisions or mixed woods, Univ. Vieteria Beach eartward. See Bullet (82, vol. II).
- sphasepaperus Peck. In decedous woods, Univ. This large Boletos with sphereld spores
 was first found in 1926, and several appeared in the same place in 1927, also in another
 locality more than a sule sway. It has not been seen also.
 sub-belash pea Peck. Sees in from Inself.
- bornentoeus Kauff, probably Common in conferens woods, Clear Lake, Victoria Beach, eastern Man. Puesa yellow, vicacd, slightly easly, the flesh turns blus. westperfile Pr. Common in deciduous woods, Usiv. yiltoria Beach.

Appricaceae Leucomocrae

Amanita bispecifier Atk. This species, or form of A. serna, has been collected in sandy soil under Pinus Bushesses at Victoria Beach, Aug.-Sept. Banidia 2-speciel; species 9-12 × 8-9 u. Plants sheder, with an unablassent color.

Americka reusearia fr. Often common servos southern Man. o decedusous woode, especialty under Pepalon, in Aug. and Seys., under vallows at Reathern Stade. Somestimes very large-Filten assuur, orange-yellow with witton sealers as a usual in North America, but vasely the European form as found with oright orange to avoine filters with yellow gatches. C-eddle (907) found hout exitle may well. a unanous with canaderable absences in Hers-

(pt)) issuint can extere may rut a noncorar with equatorspace supprepare integral phalladdan Fr. One collection only, from Minds or Sept, seems definitely to teleagh to this deadly spaces.

porphysia ir Victoria Beach to Kenom, Aug Sont. Pieces rather small (4.6 cm.), however, stem slender, annulus slightly above centre.

russuloides. Peek. In sonny soil, Verteris, Headt. Piletti pa c yessowols, margin verv strickt, minobes evanierent: voins soin and evenimenende. Wint appears to se this species is anotheries found in clay soil. Univ.

— solitaria Fr. Two or their plants (cumd Oct. 1, 1927, at Kanora. Piletti to 15 cm. wide.

above the margin) volva a large sup. This deadly species is meety ever virous Fr. Manski, Sept. Pilius white somers at control, annuls, represented by physics on the street.

Amanetopass strangulata Fr. In moods; Univ. and Kenora. Pileus with scales; volva not consumuou species 10-12 µ.

vaginata Fr var alba Sace Common in detallucia woods in Manvaginata var fulva Sace. The tawny form occurs it conferent words

vaginata var Ruda Sace The lawry form occur it enuferous vaginata var Ruda Sace Aho in conferens month

Armillaria calegata Fr. Sondy useds testeria Beach, Sept. Prices to 12 ero wide spotted with aroun scales after stort scale helps to santous square 7.8 × 3g. (p.g. forsile Fr. Autora Beach, all berts. Policy mill, replic, vend, around 4. in, elabore.

— mellan by Manaunt at at a versition, and actor in origin to being tree throughout Man, and shock a solution. The demonsters of small frequent is a the words. The incredition within a sed soon line because phosphororist when exposed by breaking time acount to "foo fine" of souncies and it terrains interest to a the libert knowing layer. The viewing more rooms are sought as food partnerful. In people when he creamer from

control burspe - See Buller (82, vols II and UI),

Canthurellus aurantuscus Fr - govern vor forum vocas from Norway House to Income
and Clear Jabo, Aur. 264: 5.7 × 3.4 a.

elbarius er: The Chanterelli is somet mes atsumant se coniferous receds in eastern Mantolin, Augs-beit Not forum to contain herne. Insulfinan reports arrais amost alrays present se Midelagin, but not in Europe.

discrebarious below. One collection, Victoria Besids. Spores 8-12 × 4-5 μ.
 Infundibuliferints Fr. To and around logs near the Ontario boundary, bend.

tubusforms Pr. 1: Ironicos and re xed woods, Automa Braer cascasri. Next -- umbenatus Pr. Cambie in roma roses woods, Afric or mass rocks, sometimes on rood.

-- umbonatus Fr. Commic in form-rusis woods, due or missay rusks sometimes on wood, Clear Luke, Norway House, eastern Manitoba Citoograp adirected acceptance Peck. Univ. Aug. Sept. Prices hygrochamous with a more near

Chickeyod anirendacienais First. I nov. Aug. supt. Powis negrophizzou v is a zone cost the edge when most, spore $4 \times 3.4 \times 10^{-2}$ case.

**Taibudula First. In fronces woods, Univ. First small infunctional or every darker, names $3.4 \times 3.4 \times 8.00$ km. Zone costs.

spures 5-6 x 3 4p. Knullma: recertds this species from would of hermorek and cedar, so the Maintobun speciment may believe to another spones.
abbusinas Peck. One celled up, (n.v. Pières about 8 cm. wise, margot aub-accate; aports.

 abbasions Peck. One cellect up, l'r v. Pièrus about 5 cm. wine, margin sub-amate, aptera minutely cellinalate
 candicarma Fr. Liny and restern Man. Aug Gent. Pagus shinning memorane-white, glus

crowded, spores 5-8 × 3-4 µ.

— carridagines (Gull, non Fr) Bros. Vectoris Bench, Sept. Plants caseptose, oscitalaguous, sordid, careores 6-7 µ.

cettra Fr. Victoria Besch, Sept. Resembles C sufundibuliformus, but pileus paser, spares smaller $(4.6 \times 3\,\mu)$.

- clavipus Fr. Observed at Ingelf by Dr J E. Lange and G R. Bushy.

- Clitocybe 7compressions Peck. Mixed woods, Vivian and Kenora. Pilcan small, brownsh. ptern compressed, sparce 4-5 × 21-34 a. dealbata Fy Sandy woods. Becuse our Plants small, winte, becoming darker and sorded
- when dry, speces $4.5 \times 3 \, \mu$ - decora Fr One collection at Gamli by T Johnson, Sept. Pileta brownsh-yellow with
- scarcs spores c. 6 × 4 µ. - 7ditopoda Fr M red woods, castero Marc Pileus hygrophyneus, flacest, 2-4 cm wide, demonstrated along expectable as centre and attracked with homeonic fabrile, stem 4-5 cm. < 3-6. men sailly whate allightly decorrent, spaces mostly 6 × 5 a
- ectypoides Pecis. On rotten sogs, Vincano Beach, Aug. Pissus vingate with buckula fibrile and points, spores 8-9 × 4 5 p Hazinacea Murril On recodust every autumn it an res-house Univ. Pileus bygrophanous, oder very favingcous, note seaters tan, 21 5; one gain those, stem tapering aparard, whatish,
- spaces 6.8 × 3.4 u. The class talls and sunstrators make the usage doubtful. Washington Pe. In francisco woods I am Pilem blane w state color of a cut stilly close auto-
- document, sporce 6-7 × 4 a - gigantes Fr At Miroki and Livnora, apparently this species also at Clear Lake, attain og
- a very large size. Aug -Oct. · unfundabalitermis Fr Ingolf, probably sommer
- maxima Fr Occasional acound Lake Westinger and probably clientiere -- Translathron I'r In mused woods pray I'm do Bornet, Scpt. Piaus 15-20 mm., hygro-
- phaneus, bud transpored untrov-brown foring or drying gisbrous, gills arcusts decurrent, gather distingt stem 15-25 × 2-3 mm, especies, pro-non-silky, glaurevers; taste mild, spoons $4-5 \times 2-3 \mu$
- morbifera Pera. Amongst grass. W suspeg and t ms., Sept. reputed to se ponsonous - manufacture Pers. Common on the Conv. currence, as those from bursed worse in the forest at Inumity Piles densely executase
- multiforms Perk, Franker woods, U.A., Juy Pileus Lygrophanous alutaceous, to 10 em unit, oter compo, at rogs, munito y silky, gills coorded, white thru yellowish,
- stem stuffed, spores c. 6 × 4 µ. adora Fr. Very common in woods, Lyny, Victoria Benel, and enstroad. Plants greenish to whatsh wit. the okazacteristic edur-
- odera var anisearia Pork. Found at Lary , probably commo
 - nunnhala Peek. Tinder Pouss Bashasan, custern Man
- weapon Bruill Assumed agent, Vactoria Board, June Poeta dark arrors with remote scales refer and test, fariancems, species 8, 0 x 5-6 is ... nulchereime Peck On old wood, Victoria Beath, Aur.
- with the state of seconsing brownish, pileus brick rod.
- Thomas he shortment at Juneil were consultered by Dr. Lenne or proposed the appearantruncicola Peck O wood, Univ Winnipeg and Victoria Beach. Spaces 4-5 × 3-4 µ.
- Callidate Taxamenta Fe Don't Campany from Systems Brock and Lawy June Zagunza Fr Possibly a form of C Arsontills. Univ., June.
- albiflavela (Peck) Jusuff V ctorn Besch, Aug-Sopt. Pileus large, stem bulbous, apores 8-9 × 5-6 µ, oratida crystadate at spex - starts So. The black Cullides return in burnt places Clear Lake spaces 6.8 V 4.4 in
 - Victoria Beath. atvatedas Pork On old cond tornations on starread Data Victoria Beach Spores sut-
- butterance Fr. Courses Hery to Nervay House and Kenora.
- Teirrhata Fr A doubtful collection at Victoria Boach No selerota were present
- calaras Park Victoria Basch austronit Pilcon . 2 cm. byercoharous tratery-house then rellow-brown stem convolor; snows 2-5 × 24-3 a
- confluence Fr. Typical specimens rather common in conferous areas, Victoria Beach castscand, energy c 3-5 × 3 m.

- Collybla Cocket (Bres.) J. Arzold (Mycologia, 27 389, C. cirrhole war. Cooks Bres.) Univ., Giusi, and cestward. Common, sometimes at least on remains of other agarics, always arising from a yellowish scleption.
- dryophtla Fr Verv rommon in developing woods throughout the spring and summer; variable, and sometimes with the proliferations formerly known as Tremella migorisphola. See Buller (92, vol. 111).
- familia Peck On decaying wood in conferous areas, eastern Manitoba.
 hariolorum Fr. Common, Berens River, Gear Laze, Univ., July-Oct. Pilcus soft, rather
- amail, stem while tomentone, sporse narrow
 hypersphoresides Prefix. Commiss in Justice (maj) along the Red River and probably as other
 dendamas words. Pirtus resides, setti not rig, sporse 5.7 × 5.4 µ, restains pointed.
 heartimes Fr. One accession. attempt the re-fresh for a fixer, Justice 2.7, 365. 3.1 w. Pileus.
- 7] cm. wsir, tan with date-brown center, appearing viewety but have few, stem extending 8 cm showe ground area 8 beins, 8 into wide at apex, 16 mm at ground line, solid, datebrown, with tomentum, gills amost free, becoming ye low into sporce 9-11 × 6-7 μ, basedia 4-sporced, cyatrdia on usion and edges of gills. This life hauffman's description larly well,
- but not Res a ... meaculata Alb. & Selw This large "spotted Collyhia is not incommon in conference
- woods, Victoria Beach and Kenors, July-Sept.

 myviadophylla Prek. Common on conferense wood, Clear Lake, around I ake Winnupeg
 and readward. found once on deviduous wood. I n.y. June-Cet. Cello like, very growded.
- spores c. 3-4 × 2 µ

 montronarea Batsch. Possibly only a form of C. maculett. M.nass. Setd.
- tubercoax Pr. Controm in acturino, reatern Mancion to Nerway House. Pièca sinall, de 10 mm, with seriour sense arising from a cienquisted state restriction selectation to the retinance of various Hymeromycetes, including Hydrane sp. and Lecturino personal matter des Hymeromyce Unable the institution is indestruments.
- webstipes Fr. Common scross southern Mnn., especially on Salix and Populus, sometimes on Ultras, sometimes a writer annual army view the Maintolas winter annual aredding spores about the first of April. See Buller (62, vol. 111).
- Hygresphorus horeafas Peck Univ. Victoria Beach, nastern Man. Pileus 1-t em., hygrophannus, not vised, even, natrey w. te, guis datant, atem 3-5 em. X 3-5 mm, spores. 7 10 × 4-6 u.
 - Cantharellus (Schw.) Fr. On wood Victoria Beach. Piccus small, yellow to orange, amouth or minutely somemises, accress 10-11 × 0-7 µ.
- or minutely squamulese, appres 10-11 × 0-7 µ

 **Termeous Fr Doubtful specificers from Univ and Manaki.

 sharmedan Fr in confirmat woods. Clear Lake Victoria Heach castward. Societimes.
- alterproofees Fr In conference woods, Clear Lake Victoria Beach rastward Sometimes attend by red squerres. Known by the golden granules in pileta and stem, spores 5:10 × 4-5 µ. Bee Bulser (82, vol. II).
 a meetimass Fr Traveal accounter of this brilliant meetin occur in seconds or the roles of boast.
- Univ., eastern Man., Sept. Oct.

 Colemannianus Blozan. Luv., Oct. Pileus 2-3§ cm. wide, smoky-purplish, subviscid, umbreate, zilk distain, interveneer, smorre 8-9 × 5-6 u.
- moniesas Fr. Ratiser commun, Univ castward and northward, July-Sept. Pileus coniesal,
 models willies then black
- reddish-yallow then black

 abservatus Fr Oze collection, Victoria Beach, Sept.
- -- Tflavodiscus Frost. Victoria Beach, Sept. -- Tfullginess Frost. Univ., Mineks
- Humpstehn Fr. var. occidentalle Kauff. Amenget moss, edge of a bog east of Beausequar Plues 3-3 cm, viscol, gray-brown, darker on dae, galls white, decurrent, stem white, aomewhat sook-ovas-prunous: mores 6-8 x 4-44 s.
- hrypothojus Pr. In conference woods, Ingolf, Kenore, late autumn. Piles brownish, gills bright yellow. Rauffman considers this species to be southern, but Dr. Lange found Ingolf speciesnes to agree with those in Demark.
- Learne Morg, Frendoss woods, Univ. Oct. Pileas reddish brown, ghrtinous, stem also ghrimous; mores θ-9 × 6-5 μ, apirolette.

- Hygrephorus miniatus Fr. Occasional, Victoria Beach to Ingelf and Kenora, and at Mile 412 on the Hudson's Bay Rasiway.
- nigresseens Quél. This fine species was found in the Univ woods, Aug. 3, 1928. Details of the speciment are given in "The Fungi of Manutohis." The colors and statum are as shown by Breadsin (Fon. Myrol p. 250), except that the Manutohis plants were not campanulate. The species were 0-11 × 0-74 µ, rather abotter than described. A striking.
- fungua, certainly near to H magresonus

 nitidus Berk & Curt. Conferous arms, Clear Lake. Victoria Brach, Kenora. Pileus small,
 umbhiteate, yellow but fading
- pallidus Peck. Carr. Oct. Pileus anoxy-purple when fresh, sporre about 6 × 4 µ palliduses Pecu. Damp woods, Victoria Brach. Sept. Pileus visioni with yellow gluten, asem with yellow data at apex some of which ture black, aperes 8-11 × 4-5 µ. Peckil Atk. B rds Mil., 2mp. Kerves. Oct. Small reddish-brown vision data.
- pratensis Fr. Clear Lake and Kesora, Sept.

 pratensis Pr. Clear Lake and Kesora, Sept.

 pratensis ver pallidus Berk & Become Unov Victoria Beset, Sept.-Oct. Pileus some-
- what turbinate, which, appear 7-8 × 4-6 μ .

 pattacinus Fr. This face parrel green plant has been seen but twice, Kristia, Sept.
- pudarirus Fr. Not uncommun in mard woods; Clear Lake Victoria Beach Minaki; Sept. puniosus Fr. In occiduous woods, Carv. Filcus vicid, scartet, spores 9-11 × 5-6 µ
- Russula (Schnoff) Quft. Kenora and Minaxi, Sept. O'ten placed as Tricholoma.
 speciosus Peck. In ucgs, Minaki Kenora, late autumn. The conrege-colored pilet are
- striking

 Taubru-fascena Peck In maxed woods, Victoria Beach. Pileus pink, prujnate, 2-3 cm.
 broad, item ginisth, aleader, gills close, narrow decurrent.
- Droud, stem genisses, steader; gitts coose, narrow securerat.

 virginause Fr. Kurons, Step. Oct.

 Laccaria Laccata (Scop.) Berk & Brooms. Common and variable, signing the Hudson's Hay

 Railway and Norway Buge southwards.
- Rathery and coveray House southwards enhanced Birmler to the preceding, but palent larger
- Teoretik (Holt) Bouo kenen Pileur small, deformed, spores echeulate, about 10 µ wede.

 Lactarius affinis Perk M xed woods, Norway House, Vittoria Beach and eastern Man
 Otten aburdant and well developed.
 - chrysoerheas Fr Mixed wossy, Victoria Beach. Pileus subviscul pale yellowsh, somewhat somed, the milk changes to sulphur yellow sulledateds Fr In continerous woods. Kernay Heuse, Victoria Beach, Aug.-Send. Often
- elletoides Fr In contierous woods, Kercky Rouse, Yistona Beech, Aug.-Sept. Ulter bundant, pilcus large, covered with a temestum which is particularly evident around the margins of expanding pales, mith changing to yellow
- margins of expanding pales, auth changing to yellow

 controversus Fr Cicar Laxe Inguli Univ , Aug Pileus sage, somewhat solved, whitish;
 give park to salmou colored, milk white.
- delictosus Fr Common in confereus areas, Clear Lace, Norway House, eastern Man This species is sometimes collected and atored by squirrels.
- Tall species is constance concessed and alored by squarren.

 Fulligirmans Fr Kennen, Sept. Pileus small, smoky beown, taste aerid.

 baleus Fr. In tone, Intell. Kenom, Aux.-Sept. Pileus tawny, rather have; milk watery.
- hysgirtus Fr Murch woods, Victoria Besch, Aug. Pieus bright tan, viseid, stem concolor; gills subdecurrent.
- Indign Schw On snody soil under Pymus Sunksynne, near Bonusejeur and at Victoria Besoli;
 Sept. This striking fungus with dark blue milk has been found in but two locations, and only a few pains on each cape; but it can be identified from a distance.
- Insulaus Fr In frondose or maxed woods, along the Red River, at Norway Mouse and Victoria Beach. Fileus copper-orange, conspicuously second, taste acrid, spores echiculate,
- 8-[0]μ. reaculatus Peck: In sandy woods, Victoria Beach. Pileus grayish-lilae, distinctly somate; milk, or at least the fiesh, turning purposs when exposed. This striking fungus is rather.
- ecommon in autumn

 should high Lanch Near stumps of Absus (soons, Ingoli, 5 E. Lange and G R. Bieby, Pilens

 mail, 1-2 cm. wide, brown, centre more or ten umbonate. Dr Lange considered is to agree

 with Labardities as he had found and described it in Decembr.

Lactarius parvus Peck In coniferous woods, Norway House

— piperatus Fr. Common along the Brd River Lake Winn reg, and eastward. Frequently parasitized by Hyposogres nortifinesion (q.e., which makes to compression crange-red fungua frequently gathered and esten, or devel for sighter ow or sold on the North Winnings market, usually by recent from restate larges. New Busines (82 od 11).

**Tpubeacous Fr Ingolf, Aug. 1 de L. rentraversus but piletis smaller and seven bellow pyrogalus Fr Murel woods, M. nas. Victoria Boath, Sept. Pileus dark gray, spores. 8 s.

 radius Fr. Commons in conference arraes, in bugs or woods, Norway House to Vortima Breach contrasted, Aug. Sept.
 substitute Fr. In maxed or frondose woods, Norway House to Univ., early July to Sept.

 aubpurpureus Peck On sandy and in conference woods Victoria Reach, Sept. Pilicia dark red, soned, milk reddich becoming greeness.
 therapping Fr. In a Naganyar bag, Ingerf, Sept., » F. Tange and G. B. Boby.

terminosass Pr. Cummer in frontess or rived woods, Clear Laur, Norway House, Univ and esseward, July-Sept. Pilous sinkish-buff, temerators

ond eagurand, July-Sopt Phone Arksh-buff, tomortone trivialis Fr. Soon at Ingod, Korway House and Victoria Beach turpus Fr. Mirch. voods, Konona, Nept. Phone surge umber, sports 6-8 p.

wildow by Rather common Clear Lake to Gar- and Kentera. The tack and first some

in discreter whatish, velvety, arrid. ... Trintus Fr. Minski, Sept. Pilrus visced deals, accesse, atca-hollou.

— Teolamus FF. Ingolf, Aug. Lantinus conthibation F. On oil Berta, Vetoria Brach, Aug. cell H. J. Brodie. Psky. smin., smooth, confluent-enoughnes, spreas 3-44... Lapadous Fr. Vers common on as vinct via said other conference wood of Man.

Repeaus Fr. Very common on racount of sud other conference wood of Marsulentus Brick. Occasional on no uned of Populus etc. using the Rod River, June-July Pileus and J. sulents, but with rufuse centre, greater 14-16 % 6-7 g.

Friends small, assistants, can with rations control, opening 14—10. N, 6+7 g. termturbulectatur Peck. U casiffy one stand, continuous on the ground conforms area of centern Man. Pilines 13.8 cm., even "hyprophic sizes vistory mean them saked int, una elective, stim-short, correction magnifer or growers. Sights even as even, "posters 4.6 x 33.44 gs.

Underwoods I Vet. On your, far it Bonns, J. y, eds. A. M. Bron. Phens large, 2015 worst, far, which is to the mount service pouris gills very determined, a adultionating settlemental which out the settlemental extension or or carriers strate, yet res. 11 × 5.50.

vulponus Fr. On most of Possitio, rec. con Lake Cas. Virtson Beach, Aug. Piles intronsity, sign, rough-bady, spores e 8 js.
 Lapitota mattersquarmose Fr. Ingol. Aug.-Sept. Pieus. seet with erect sears,

Lepistre scattersquarmore Fr. Input hannu, Aug-Sept. Pieus word with error scare, appect 7-9 × 23-33 µ.

— americana Frek. Occasional in Stills, ric. Winnings and vicinity. Pilma large, somewhat

americans Preb. Occasional in fields. res., W. immpg and vicini. y Pilvus large, introducts nearly, tinger feedfuls, process 8-10 (12) × δ μ.
 anisanthuna (Seep.) Fr America times n woods, Ingas' J. E. Lauge and G. R. Balyr of Considered by Dr. Lauge to be this species, it agrees with the description in Res. British.

Basicpmycetne elypsolaria Fr (common in woods, Lp.v Vectoria Brach castward, Juny-Oct. Sporia II 16 × 4 6 M

11: 16 × 6·5µ eritatas Fr. In deeducer and mated vector, Univ., Victoria Beach, Ju.v.Sept. Pilcus small, with reddish scales, spores wedge-chaped, 6·7 × 3·4µ sersicul-second Atk. Inself. Aug. Pilcus brown, side, darker at centre, spores 18: 16 ×

4-d.g. colliquely apiculate gliederma Fr In confereus woods, Clear Jake. Victoria Beach, Aug. Pileus viscid, redubs, tem percente, spores 4-5 g., with a small apiculus.

— granulous Fr. Common in conferous woods, Clear Lake, Victoras Beach cartward. Pileus brick red, granusone as in the lower stem, speres c. 4-6 × 3 µ.

 illiqua Fr In mused woods, matern Man., Sept., three collections. Plicus and stem shatmous, annulus obsolete, mores 5-6 × 3-4 µ.

- rubretineta Peck Deciduous recots, Univ. Pieros 2 3 cms. reddah-brown un disc, with approaced recidah sease riscwaree, spores 8 0 × 4-4 µ, apriliate cystella on edge of gills.
 Marannius andreaseaus Fr. Commony found attached to faster breefes of Punis, Norway.
- House encharant, separent within species on bar's of avong Unius. Limit camponellus (Peck Alik & House, On feed toxing of Abus Solameon and Pouga, on the tree or fallers, Berene Rover to victor a Bracia. An Akkinson poststoot (Rept. Skate Biotanist, New York, for 1917, 61, 190) (edition absumers in a defirent screen.
 - New York, for 1917 81, 1929 (ellipsin stiputoris in a different species)

 cobinerans (Fr. Bires Atong the Red River, July-Sept Sprown by the homy dark red
 steems and the righthy revident 75 90 4, 18-2 m. Birnadata cash this species Af continues
- Pers

 plphyllus Fr Cemron on fabro leaves of Populus, Querens, etc., t niv to Victoria Beach
- opthyrius fr Common on fallow leaves of Populus, Quereus, etc., Univ to Victoria Beach and castivaril.
 Terythropus fr In conference scoods, cometimes on burnt places, Clear Lake and nastera.
 - More Precess 1.2 reas, dark ton, cast darker, shightly prolinous, place to department, gills an accusabled with the boundary stages of the precision of the property of the pr
- felix Marg. On faure leaves of Queen's interested along the Rei Rever. Pitcan 3-7 mm, more or less subset, errors record according towards, gills (w., castant, vecous, ricen 3 mm, with, become libercome, arts whether furnaments a piece 8 10 2 × 4 5 a.
- fortidua Fr On fallen one ferous turge, Victoria Brace Pirus stenu krounneh, with a smail dark umbi sun, stem vervely order of rotten eggs.
- Igrammanum Lin On decaying netacion or herborrous alema Univ. Pitrus. 2 mm. wide, brown sh, xxomie, umbonate stem brown shifterm, gills few not attached to a cedar, spores
- 8-10 × 3-4 µ.

 7minutus Peck. On falca deciduous leaves, Unry , det. J. Dearness.
- eccades Fr. Rarch found amongst grace, I nov. Oder fragmat, sporce 8-0 × 4-5 µ. Buller (92, vol. 2). N4-90) records that 4 has none on treated for food in Winnings.

 polyphydius Perk.—In frontinge gradin, 12-v.—Péres pau reddels, gills narrow, crowdel,
- almost free, stan below, taste of garac persistent, spaces 5-6 × 3-3 j, a retula Fr. Company of fallon fraves, on back roc among the Rec, Rayre. Cells attached to a free collar spaces 8-5 × 3-4 a.
- scoredormus FY On the groups, in secret woods, Ingerf, J. F. Lange and G. B. Besty Birsug solar of goolse when the plants are breased.
- aemskertipes Fock. In decelorus woods, Un.v. Fileus reddish-brown, atem dark redbrown, veivety, spores 7-8 × 4 μ.
 Tamenvisus Brek. & Luri. On and. Victoria Beach. Pileus tan. vot darker at rentes.
- stern spengy-thekened at base urans Fr In words, Kenora, Lr.v., Victoria Beach. Stem reddish-brown, pubescent;
- taste acrid.

 warreeque Fr Near a kog, eastern Man, Sept Piega I-3 om, reddah-brush-brown.
- warrenus FF. Near a tog, astron Man, Sept. Pisca 1-3 cm, reddish purjish-brown, gith becoming editish stem follow dask red within, spore 5-7 x 21 34 pt, taste mild valutipas Berk. 6 turt. In words Norwy House, 1-19. Files 2-4 cm, reddash-brown, when most, hysposharous gith narrow, retwined, detay may/she/temences, 6-12 cm, fongt.
- speers 6-7 × 3-4 μ no cystolia, taste said.

 Mysems abransii Mizrill (as a speers of Prizmblus). On eld wood and debris, Vigtoria Beach,

 Juny-Sept. Pileus coses, dark brown, spaces 8-11 × π-7 μ. Det. A. H. Smith, as were
 meets of the smoons of Myccall.
- most of the species of Mycena.

 solcula Fr. Common on raves and twigs, Unav., Victoria Brach, June-July. A beautiful little shart with red to corane miles and vellow stem, encres 8-11 × 3-4 a.
- alesinra Fr In woods, Univ., Jane-Oct Pileon grayars, eder nitrous, apores 9-10 × 8 a. Zatre-albeidea Peck On decayed wood, Victoria Besch. Pileon small, bankies, stem dark snown a 8 × 5 u. certidia a 60 × 17 u.
- atrouyanea Fr On debre in woods, Univ. Pileus conical, gray, about 1 cm, wide, stem.
 blush-eray, apone 5-9 × 5 u. sterile cells at edge of gills, odor none.

Myssams shierentha Fr or nat: In decidorous woods, Univ Pileos vryy anall, greenish to yellowish, transiquent strate, unknock, gills white yellowish, transiquent strate, unknock, gills white yellow II mm. wide, pale green above, darker green below, suprelicid at hous, sporms 12-14 × 5-0 s, pointed sterile cells at selges of gills - eltrinosman real serves in decidoous woods, Univ. June-Sept.

Pileus commail, 5-18 mm wide, yellowah or greenath, structe and plants, nanately ality; stem concelor, darker below 4-5 cm × 1.3 mm, sometimes twisted, easily splitting, myceloud at base, gills grayah with yellow edge, upders 9-13 × 4-6 µ.

- blawloulerie Fr var futulipse hauff herom. A small species with a long, vseed, yellow stem.

- Independents FY for interpretable. Records. A stoke species with a long, vessel, yet-low determines on confidents. FY Ou decayed developes most, most low. Spect. Filest, creamy white. 23 min. side, glatrous, gills whitnib. attached to a collar stem 4 6 cm × 1 11 mm, speces. T 9 × 5-6 min.

— Tearticals Fr A Mycras thought to be this species has been seen on the bark of trees, Univ., not yet studied carefully granuselsais Frek. On debus on decidious woods, Univ., June-July. Pileus blue-green.

when young 10-15 mm wide, stem pruneer, with some bluish fibrils at the base, sporm subsubstreal fibril u loser

subspherical, 6-8 µ long splaterysts Fr Amorgat mose, Service River, Ingolf, Aug.-Sept. - Teactas Fr In mixed woods, Kerora, Victoria Beach. Pileus 2-3 cm. wide, umber, firm.

stem concolor, apares 8-10 × 5-6 µ, aperulate, cystofia r 50 × 20 µ.

- galericulata Fr Fairly constant on decayed word along the Red River and at Victoria.

Boseb, June-Nov.

 — hasematopa Vr Occasional, Luiv and Victoria Beach castward. The stem exides a red just when cut, spores 8 · 0 × 6 μ.

insreasulata Peck. In deviduous woods, l'insv., July. Pileus. 2:6 mm. wide, glabrous, pure white, as at the storn, aprent 5:10 × 3st.
 Tenclinata Fr. In develuous woods. I nev. Pileus about 2 cm. wide, brown, with a sharphy.

marked, persistent ambe, stem consists twisted, furrowed, spores $\epsilon = 0.00$ m ± 0.00

prunses to somes hat fibrillose, stem dark, spores R 103 × 5 µ odor n-troux.

Jacobi Maire: On notted develuous wood, N1 Norbert and Univ., June: Pileus 2-3 cm,
wide, instelly ality: gray-hown, becoming place; stem notsing, often from buried wood;

gills whete with tracer of york, spores 9:11 × 6-7 µ, systain numerous.

— tactan Fr On old deviations wood and bark along the Red River, June-Gept. Pileon to
10 mm wide, pale yelfowide somewhat stricts; stem 3:4 rm. × 1 mm, concolor, mycelloid.

ah hase, spores 8-10 × 5 μ, odor slightly akaline.

— lascless var pkthya Alb. & Schw Ausroget mose, Clear Lake.

— lascless place and beginn the specific place of the specifi

gills with edges red, speces 7-9 × 4-5 µ

— beptocephals, Fr. On the ground in words, Univ. and Victoria Beach, June-July. Pileus. cone, gravi oder eithous goess 9-10 × 6 µ.

count, gray; oner mirrows, speces is 10 × 0 µ.
smagnapora Kauff In a long, Kenora, Sept. Pileas dark brown, 2 cm. wide, stem compulor, deeply rooting in the mose, spores up to 15 µ long.

minutula Peck Co moss and old wood, Univ esstward, June-Aug Pileus manufe, white; seem sleeder, white, covered with microscopic sylindrical hairs, sporms 7 8 × 4-5 µ.
 miseasses Murril, (as Prumbia) On the ground in decidorus woods, Univ. June. Pileus

mivespee Murril, (as Prurn'us) On the ground in deceleous woods, Univ. June. Places
3-3 cm. weds, whiteis becoming fan colored on drying, slightly stricts; gills white; plans
6-7 cm. × 2-3 mm., whiteis, nearly glabrous, mycelloid at base, sporce 6-11 × 6-7 μ;
ader some.

 pactinata Murrill (as Prunchs). In woods, Univ., Victoria Basch, Jone. As described by Murrill except that the apores are θ-13 × 3-7 μ.
 palianthina FY In decidenous woods, Univ., July. 240-Sept. Citiz provided, aspecially on edges,

with purple cystolia, spores 6-8 × 4 s.

— solvpraramas F var alkate Kauff. Rather common in desichnous woods, Univ ; June-Aug,

"Plans 3-4 cm. wide, white, becoming gray, stricks, stem white, accuse/hat recoting, spores

-12 × 6-6 ut restable hardwark, bested, note entrous.

- Tyraelonga Peck. On old wood, Univ ; June. Pilous dark brown; stem long.

- Mysense pura Fr. Commont in mixed woods, occasional in deciduous woods, Clear Lake and
 Univ earburd. Pileus with various shades of pick, lavender, and blue; systidis present.

 purpursed uses. Peck. Mixed woods, Victoria Beach, July Rivers purpland-brown, stem.
- purpurbed uses Peck Mixed words, Victoria Beath, July Pileos purphsh-brown, stem and edge of gills concolor. Spores in dred specimens 8–9 × 4–5 μ.
 stemmer Fr. Amount seaves and most of development and mixed woods. Univ restream
- stammes Fr Amongsi seaves and more in devolution and maind woods, Univ centward. Phen 1-2j can wide, hygrophanous, content strate to umbo, gay, darker on umbo, gills grayish, broad, subdistant admits, stem 5 f cm. × 1 3 mm, content darker and mysoloid at base amonth and houser above, spores \$10 × 5 8 µ, a few cystidin present, odor mone.
- etylobates Fr. On decaying bark, Univ. June. Pileta i Bran. wide, white striate, smooth or with a few basiv, strin fluident, white arising from a streaker flat, villous base or shallow out file disc, sperce 7-10 X 4-63 µ.
 - vulgaris Fr Amongst print receies, etc. .s. con-ferous woods in castern Man., Sept. Pileus and stem viscid, púcus 5 .0 mm. wide, dark brown, striate, gills subdecurrent, stem 2-4
- em. × 1 mm, whituh above, darker below, spores 7-9 × 4-5 µ.

 Omphalla carupanella Fr. Common on conferens wood, Cher Lake, around Lake Winnipeg cast wad. Offer forms retenoire tusters, stem date-brown, spores 6-8 × 3-4 µ.
- apolystum Fr Occasional on old wood, hennys, Victoria Beach, Juze-Sept. Pileus mody-hrome, to 4 cm. mide, stem consider, spores 6-9 x 4-5 p., pp-shaped
- fibula Fr On moses, Victoria Beach authentiward Spores 4-6 x 2 2 2 µ.

 fibulades Perk On miss, rastern Max Pirus larger than the preceding, spores 8-8 x 4 µ.
- gracitis Qu'd. In Sphagnam, Ingolf, det A II Smith. Pileus about I en wide, whitish becoming yellowish, stem long and atender
- hecoming yellowish, stem long and alender

 Tomisca: Fr In the word woods, Univ. Sept. Purus 10-15 man, wide, hygrophanous,
- dark heunn, sperce 7. 8 × 6 μ ovate with a curved against the end.

 Talkuria Perk. In from n randy words, eastern Man. Phras 7. 20 non, wide, yellowish to shaddly gerearly, insularate, with proed suidedist, stem conceller, speece ε δ × 6 μ.
- magarix german, influinteste, giris tirest, mitigistari, steer romeoley, specer c 8 × 8 μ payaidat a Bu₁₀ Amorget intestes, eastern Mar , Or · Piirus redishi-beown, bygrephanous stricte, infinithius/orts, etcin common, spaces if 8 × 8 μ. The planta appear as illustrated.
- in Breandon's Iconographia, Fig. 200, but the sporce ('rein a spore print) are somewhat abseter than he records

 Trugmodiscan Peck. On decayed wood, Vactoria Brank. Pileus hygrophanous, dark-brown
- when moust, more or low rugges.

 umballifers by On the ground or old word, Ingolf and Misake. Filous small, yellowish-
- brown, stem darker.

 unibratila Fr On burnt places, Clear Lake Planta nearly black, except the gills, pileus byweethances: scores solutiones, mostly 5 × 6 a.
- hygropmanous, sports substations, mostly 5 × 4 µ.

 Penus angustatus Birk for old wood, Victoria Beach eastward, June-Aug. Spores 3-5 µ;
 everlate, 80-55 × 0-14 µ.
- eyetions 59-50 × 9-14 µ worlds Yr Custmon on Betula and other frondore wood, Univ. to Victoria Beach and east-ward. Pricus tough, strigger, brown.
- stypticus Fr form luminescens Huller Occasional on old Betua, Populus, Quercus, etc., across Man and at Sahatoon, Saak. The North American form of this species is luminous;
- across Man. and at Sahatoon, Saak. The North American form of this species is luminous, (see 82, vol. III).

 **Helacosciulrus Illatech) Quel. On Betuls, Krengs, det A. H. Smith. Not recorded in
- Kauffman a "Agaricaceae of Michagan."

 Pleurestus applicatus Fr On old Frazinus, etc., Un.v., abundant on lower side of fallen logs of Phus receivednits. West Haw's Labo, etc. A. H. Rrotth
- atronaeruleas Fr var manirmus Dearres & Baby (71 104). On old wood, Victoria Beach.
 Picus 5-.0 mm bread, spores 7 10 × 4-5 μ, cystudia 35-60 × 10-18 μ.
- atropolititis Peck On old wood, Victoria Beach. Spores 7-9 × 4.5 µ, plants otherwise sizesiar to P. applicatus.
 atropolities Pr. On old wood. Servers Univ. Plant 9-4-41 cm wide weeken touch whitship.
- tan colored on drying, gills coowded, maruw, white, stem eccentric, 2.4 cm. long, hollow, gabrons or sightly white-siky, sporm 3.4 × 2)-3 µ, oder and tasts more or slight.

 eraspeditus Fr On od Populus, Univ. Victoris Beach. Please up to 12 cm. wide, tan to
 - eraspeditus Fr. On ood Populus, Univ. Victoris Besch. Piteos up to 12 cm. wide, tan to Sooh-color, with a wavy edge caseled by retrolations, stem eccentric, spores subspherical, 5-6 µ in dismeter. Agrees with Fries Coom. Pl. 86.

Pleurotus elongations Peck On old loss of Arer Areands: Law Stem up to 15 cm long. hollow, succes 4-6 at

Simbolatus Fr. var. zurularia Kanff. On old wood. Lee du Bennet and Nationa Bench. July Sept. Piteus Lyahar-hygruphanous, then blic a: egg-shell a appearance, odor

farinaceous, spores 4 × 3 µ, sterile cells on edge of gills

- Reportible Fr. On not wood of Frances, etc., Ingot I my. Phone chalky where, tough, Borrose-primates or mentaly alky intern usually exercises, oder fan various, spores 3.4 × 2 µ. - ostrostus by Rather common or old Popular, etc., Man and Sask. See Baller (82,

- peteloides Fr. On old Betula etc., Victoria Beach castward. Pilcus spattulate spares globular 3 4 a. cystidis abundant *pulmonarius Fr On old Populus etc., Victoria Beach, Winn peg. June-Sept. Pieces to 8 cm wide emooth, not appointe, dull white to pale publisher, Seek than white, gills broad, fairly close, not anurtomoring state lateral, spaces 10- a × 4 au (month 1, 3 × 4 au),

print world, detor shirld. This species arrows with Broadula a k-z, 203. It can handy be P syberrolyssa Prek we assisted Nauchter. On deputation have along the Rest River. Piters have grooms 0.11 V

31-41 p, with a blac test in mass. - Teentieus Fr. On sod Aorr Neouselo, etc., Leov. July. Pileus small, sesselo, waste, sparce

7 9 × 31 4 µ - serotinus Fr. On Betala etc. P. golf, betage. Pilear greenest velor, smarre 4.5 x 1.11 a. - subpalmatua Fr. In deciduous woods Law, July 31, 1928. Piece 6 cm. web, reddeh. with a gelatinane opriare raised into coaper reliculations, spores celt muleto 6 8 p. Fig. 23

in Loyd's Mycological Notes and Pl. 422H in Cooke's Historiana represent the energies well Ben calls it Plearotae pointain. ulmarius 17. Very common to autumn a and nocat Wangare on ving or dead trees of Acer Armando, Ultimas, etc. Can be found by locating unwarray in the woman or along build-

wards, for the relea not get from contrals where amoretee have took removed or have fallen-It is a wound parasite, but apparently does not kill the trees. See Buller (\$2 vol. II). Russula albida Prex In decidorus woods 1 nov. July Aug. Whatah plants with mild taste-

- albidula Peck. In mused or freedom woods, Inpplf, Univ. Victoria Beach. filmular to R. offsele, but taste sorid. - slutaces Fr In spady mined woods, Victoria Beach, Sept. Plants large, purplish red;

willin welllow - amygdaloides Kauff. In doroducus woods; Univ , Aug. Large plants with pink to vellow

colors and vellow gills. - aurantiatutes Knuff In deciduous and mused woods, they conturn. The late Dr. Kauffrum stratvired this species among a colirection stored by squirrely in an attic at Minaka

borealis Kauff In wood, Univ., Vietuna Boath castward Pileus briffiant red, gitle yellow charmacleunting by Along the Rest Royer and northwant, July Aug. Pileta 7 5 cm. commonly with purple and red colors. - decolorans Fr Often very cuttation under Psaus Buskness, Ingolf, Victoris Bosch. Pileus

large, crange-red fading to yellowish, flesh becoming saley - delice Fr Univ north and cast. Pieus up to .5 cm. wide, galls alternately long and short, blush-green at edge and especially at attachment to stem

- densifetta Secr. In freedom woods, Un.v., m sandy woods, Victoria Beach. The Seah, stills and stem turn robbish when cut then black species 7.9 V 6.8 a storile cells on selen of wills.

- emetics Fr Recorded with some doubt in Man. Not common, perhaps because only one species of oak is present.

- fallay Cooke. On Sphamura, Norway House, Victoria Beach eastward. Duo of pileus hvid, taste serid. -- flava Romell. Common under Penus Bookstons on sandy soil, Victoria Beach eastward

Dilene doll nellows flesh eshu - fostens Fr Mixed woods, Victoria Beach Pileus large, dingy yellowish, soon all-smelling, - Franklis Fr. In coniferous areas, Victoria Beach eastward. Pileus small, franks, bright rosy to pale red.

- Russula grandericolor Quel Norway House to Univ. and eastward. Pieus medium in size,
- integra Fe Amund Jak: Wanapeg and rasterard. Parus doll red to huff
- lates by In Prontine and mixed coose, Universitied. Pleus and gills vellow on lightcome by In saidy woods. Minaks, before these. Pleus large accoming nearly black, fish whose sit trousar reducit there blackling.
- teace, non-wace tal timing reddah then thicking.

 Technologication hardf. Lightly, July. Procus large, vellowish, gills white.

 palustria Ped. In a log, Norway Bosse. Price needsom in use, purplish red, atem tinged.
- reasspee (Scer.) Bros. In frondese woods; Univ., July. Pileus small, bright red, stem rose red.
 aanguines Fr. Univ. restours. Pileus voeds, fragér, respecto, margin thin sou discretalate.
- canguines Fr. Law restores. Pilrus vocal, fragio: restored, margor thin and inherentate, dank tards y serial, appear creamy white specific Fr. Victima Board estimated and the processing of the processing block of without the processing of the processing block of without the processing of the proc
- Bret turning reddish.

 testudespa hou?" In sured woods, \u00e4rtona Brach. Pileus large, fragile bright red, margin structe taste arrid.
- strate taste acrid.

 Testernosa Fr Ingelf, Aug. Resembles R. eveten, but sparca yellowish.
- viruscens ir Virtura Beach earlund Phras grown with many patches on surface
 assumption by Commun. June 1 1 v Autuma Beach. Dr. Laure consusered the feach
- aperdisces in son to be probably R you reerse, but houlfman is zero Council for the name. SupplyBlum commune Fr. Commin. afron Mar. and Maki. on deal wood repetituoy on sturge, trunks and large commines of Populas and Betals, continents on Prival become.
- The pile w that and the descention and cold of winter and were (outed by Busier (80) to be walter after the weeks at the temperature of injuries there also 82 vol. 1). Trichelslems aurantum (behave it is Batter regions in sandy masse, woods, Victoria.
- Trichesense aurantium Behned. Fr. Hatver receion in sandy muce, woods, Victoria.

 Beach castiand. Plies residuel, taste rather hitter, spores c. 5 × 4 µ.

 ---- brewipes the. Fr. In frontier woods they, and of July to Sept. Planue 5.7 cm. dark
 - brown stem fuseous white filt-more short, brown within, spores 6-8 × 4-3 μ, punctate, eyutidia on cdge of gills 40-65 × 12-14 μ, roughcood at apex
- 7-therpsenteroudes Freit. Francisco woods. Univ. Pileas buff, up to 8 cm. mide. scen. mide. sporce 6-8 X. 4 at least farinaceoux.
 strumescens Fr. so. in Assiftson. Acadimized of Michigan. March woods. Inself. J. E.
- Lange and G. B. Bulsy. Pilrus 6 it em. receives their plane or arregularly depresent, amostinalgity impatry filminous, gars obstaceous, energia paler, gi-k adiator or altrout decurrent, narrow (± 5 mm), very recordor, evanny white becoming gray, then sub-buttous, 4.7 × 1-1 cm, recently, nature 34 cm. 2.5 24-3 at a task fertimeness.
- equastre Pr In confecus, areas, Clear Labs, Victoria Brach castward, Sept. Oct A fine apocies, with yellow gills and vanegated yellowsh pilets.
- Full givenum Feck. In mixed woods, Clear Lake, Sept. Filets sureky, spores 7.9 × 4-5 µ.

 "Turnosituteum Feck. In woods, Arteena Bench, Sept. Filess smoky-yellow, apores when mature 6-7 × 4-5 µ.
 - malaleucum Fr Hatler common on lawm, Univ , Sept-Oct , rarry in June Pileus dark brown, spores 8-10 \times 6-7 μ , rough.
 - nudum Fr. In frondost or maxed words, Univ. to Victoria Beach material, Sept., rarely in June. Plants small lavender, sporce 6-8 × 4-5 µ, assesse peak in mass.
- panaeolam kr. In mixel woods, Victoria Beach and restern Man. Pileon large, usually solitary, tasta peppery or bitter; whole plant pale pursub-tan, speces 5-6 × 5-4 µ, pulsfiesh color in mass.
 paraeolam NY. Common in frontion or mixed words. Univ. north and eastward. Aux.-Oct.
 - Plants scattered or in troops or interrupted fairy rings, taged throughout with lavender, spores pinkish-lavender in mann.
- Tpartentnamer FF Mused woods, Krnora, Sept. The plants resemble Bremdola's loono-graphus Fig. 56, being dark and unbonate, gilk yellowish.
- ~ rutilians Schoolf Victoria Beach seatward. Plieza with reddish scales on a yellowish surface.

Tricholoma sparroaticum Fr var. umbonatum Lange in litt. Common in mixed woods, Clear Lake, Victora Beach satiward. The pitrus has a cooleal protected umbo that is comapicuous when the planta are frein or dried. Pleine pale gray with innate forbits of the same solor, sports 6 7 x 5-5 µ, no odor or taste. A very destrottive fungus, studied at Jugall by Dr. J. E. Lange and G. R. Blaby

 terressor Schaeff. Common. n woods; Univ to Vastoria Stech and unstread. Pliens gray, a silky becoming such; terring durg greenble where brusined, gills enarganate, whate these pake greensh to brown, whate plant fragile, spores 5-7 × 3-4 p., after and taste strongly faringerous. These sharts rewealth Ernandelds VBs 7-4. To antiformion, must that has

Fig. 75 of T terreism, but Nauffman considers that these species steeped:

- transposatars Peck In freedom words, Tray, Victoria Banch and eastward

- transposatars Peck In freedom or mixed woods, Tray, Victoria Banch and eastward

- Pileus visual larger, redden brown, religion better, steep solid, up to 2 or 3 cm theek, gills

becoming reddish spotted, spores 5-6 × 3-4 µ, with a large of drop, odor farinaceous Kuiffman reports it as sometimes forming mycorrhize on roots of back oak — turnsdown Fr. In mored woods, Vetona Breach. Pieus about 8 cm. wide, 'tumod,' gray spotted with brown, margen yalver, Such and gold convensents, spores 4-5 × 8-4 µ.

- woodnum Fr Under conders, Clear Lake, Ingolf Pileus mediatin in size, reddish brown,

Tregia crisps Fr. Centinos on branches of Amus and Betula, sontetunes on Salix and other frondose wood, Norway House, Un v. and matern Man.

Réadouneeus

Claudopus graigensis Petk. On decidants wood, Univ., July-Aug. Pikus I 2 om broad, gray, markely nilky, hygrophanicas, siest concoor, coentrice pruniate, gitis gray, narrow, autobatant. Inspire, bandly reaching stim, spoce 8 for DX SeT. Ju, appliar.

 maphyticus Mur"l. Crinton est ou deculuius vocal es stumps, serviciases around the base of living trees, about 50s 8cs Rever ence Winniges, usually n dept sorrectares letter Manatelus plants described in "Sung of Manatolus" p. 07. Yasily recognized by its penetratives resolutio ofter. Sources 8-11 x 6-74 s.

 — nidulana Fr. Common to Man, on old deciduous wood in autumn, occusionally overwintering and shedding spores the following spring. Gills orange-villow odur unplessant, but and compared with the preceding.

Clitopikas neveboracemala Peck — Common on leaf-mold etc., in conferous woods, Victoria Peach castward, July-Sept. Pileus brownish, concentrically marked with dark rings; spores creatory-pick of N × 4s, subtly augular.

apores creany-pink: α 0 × 4μ, augitify auguine
— Tambphanus-Peck. Or derayed wood, Dury, Jusy. Piteus grav, about 3 cm. wode, depressed
in centre, amately alky, gelt advato-decurrent, stem hellow apores angular 11 12 × 8μ.
— substills. Peck. In woods. Neanos. Lov. Piteus brows. depressed or unsolitests and

bollow; spores 5-10 × 7 9 µ, oder farinaceous.

Ecella Tenordaa Alk In musci woods, costern Man., Oct Pileus small drying suboilior, stein neer or use faithless. scores 6-7 × 4-5 µ.

atom more or see fatalizes, sports 6-7 × 4-5 µ

- Inivas Peck In sandy soil at the edge of musci woods, Victoria Beach, July Pizcus thin, 9-12 mm. broad, grayah whote, with unbucate spores r 12 × 8 µ, of ten unquittidate.

prelis in mass.

— polita Fy 10 deceduous woods; Univ., June. Piteus 3-4 em. wide, hygruphanous, graybrown umbi-seduo stem cartifacionas. fractio, concolor, encres rounded-carular, 8-10.

Resembles the illustrations by Atkinson, and Breadule, Pl. 593.

-- Tropso-albocitrina Atk In woods, Univ., Aug. Fileus whiteh, depressed, 2-3 cm. wide,

galls pmk, admato-decurrent, spores irregularly augular, 10-12 × S.u.

Entokema Telenikasara Marrill Kences, Oct 1 Pleus isocrate-scaly, gravish brown, odor
and taste stromaty mitro-farinarcous, spores samplar, 8-10 × 8-8 m. Tyre collected in

Minnusta.

7 chypactum Fr In mossy woods, Keners, Sept Pileus brownsh, streaked with darker Sheils.

griseners Peck. Hather common in woods, occasional in an orehard, Univ. eastward. Pilcus graylab-brown, more or less hygrophanous; spores 8-10 × 7-8 µ, with prominent spiralus.

- Entelerena johaturs Fr. In woods, Univ. Juppil, May and Slept, J. E. Latiga and G. R. Bishy. Phys. 3-6 cm. wide, Shrikise-easly, mouse-color, stem hollow, spores irrugular, ε 10 × 6 μ.
 Parkinaryon, Burt. In woods: Vettors, Heach, Jupo-Sent. Phys. hororish, tonataly
- Shrilloss, spores 9-10 × 7-8 µ.
 -- Yrhoslopellum Fr In nased woods, Kenves-Pileun firm, gray-brown, glabrous, stem long, white, morean sanutar-roundais, 6-9 µ.
- sericatum Britz In frondose woods; Univ Ptleus whitsh, hygrophanous, gills whits at first, spores 9-10 × 7-8 µ
 - sericasum F In core woods. Birds HdL Univ. Victoria Beach. Pileos brownish, spores
 - = partesiam P7 in open woods, forms ited, Univ, victoria neuen. Fusca neuvrina, aporta 8-10 × 8-8 µ. strictius Feci. In swampy woods Victoria Beach. Pileus strangly umbonate, stanamen-
- brownish, aporus 9-12 × 7-6 µ, mothate, angular Leptenta asprolla Pr In woods, Unr. v. brovin Breach, and eastward. Pileus 2-4 cm. wide. grayath howar, sporus abarply angular, 9-14 × 6-6 µ.
- grayan serum, apores starply suggests, with A 0-04.

 Therespons Fr In tow words, Artners Plants slender, sperm 10-12 × 7-8 µ

 regions Peck Common in frondess woods along the Red River, July Plaus 11-2 cm. wide.
- gray-brown .nnately silky and structulate, somewhat hygrophanous, plane, umbilioute, spores angular, apeculate, 8-10 µ.

 —isomerappolar F: In Jamp mured woods, butons Beach, July Frieus small, brownish.
- with appressed sody marks, apores anguler, 8-13 × 6-8 µ cyridia 50-65 µ leeg, some on adds of nils, more no edges, nils newly reverse small 6-7 × 5-6 µ rows in mass, not
- Nobaron content Peck. In mused woods, eastern Man., Sept. Dilcus conceal, 10-15 sam. wide, about 10 num. high, hygrophanous, brown, ulty-shiming, gills nearly free, broad, white than first years, stem. 5.7 m. S. 1-2 num. straubt, tubular, corrector, excitations, elastic.
- smooth, spores 7-9 × 5-5 µ

 dysthales (Peck) Atk In francious woods, Univ , July Pileus campanulate, 18 mm. wide,
- harry, spores long, angular, 12-16 × 8 µ.

 Fuseograssila Peck Or muss in woods, Victoria Beach, July Pileus about 2 cm. wide,
 cammanular, Lan calce darker on diss, slightly silky, gills nearly free, white then gialt;
- stem slender, rather darker than piecus, apores 7.0 × 5-6 µ, angular, aporulate, mammonas Fr. In woods, 1 n.v., Victoria Bench, July-Sept. Pilcus to 41 cm, dark hewen, innate/s Shrillow, unbounte, oder ranch, spores rose coors, 10-12 × 8 µ.
- Plutosa admirabilia Peck. Ou wood, l. n.v. Victoria Beach, esatwant. Plicus small, bright yellowish, with puocystidia on surface aphanood, stalked, yellow-green, 25–35 × 20 µ; scores 5-7 × 5-8 µ, systidia abundant on gills.
- enforceps Ath. On decidences would and debrar, Winneys and Victoria Beach. Pileow bright reddish-orange; spores 5-8 × 4-6 µ, cyrtidias process.
 oservinus FY. Common across Man. and to Basariono, Bash on old wood. Cyrtidias pronged
- convirus Fr Common stress Man. and to Sanastoon, Sast on old wond. Cyutidas pronges at apax See Buller (82, vol. III).
 convirus var albus Peck. The white variety has been collected at Victoria Brach, Aug.
- convisions Fr., or near. In freedom woods, Univ., July. Phiese gray, miky-shining; sporest.
 6-7 × 3-6 µ, smorth, cystalin present.
- granularis Pecis. On old wood, Vietoria Hesch. Pileus 2-4 em., yellom-brown to christiati, granulari, aporce 5-6 × 4-5 μ, amonth nucleate; cystidia numerous. This as probably vat internedus Kauff.
 - granularia var urmisrossitias Atk. On decayed wood, Univ., Victoria Beach. Pilaus villous, cystidas yellow, giving color to the edges of the gifls. Lessatiaus Fr. On decayed wood, Norway House to Univ. and martward. Fileus 2-6 mm
- Issenhaus Fr. On decayed wood, Norway House to Univ and eastward. Pileus 2-6 mm unde, benjah honey-yellow to brownsh with yellow surface cells 250-800 μ long, fusificess; spores 6-7 × 5 μ, cystidia on sides and edge of gills.
- Iongistriatus Pock: On decayed wood, mwdust, etc., Univ., Victoria Beach, usually to June or July. Pileus saby-brown, long striate, stem striate, pulvorulent, sporus 6-8 x 5-6.µ.

Plutous namus Fr. Occasional on old wood, Univ., June-Sept. Pileus umber in centre, paser near edge, atom solid, pellucid white, operes globous, 43-6 g.
— namus war lutoscens Pr. The warrets with veilows stem as rare. Unov.

- roseocandidus Atk. On the ground in low woods, Univ. Filtus white, strate on margin, spores subplobes, 6-8 × 6-7 µ, systidas very few.

sparse subglobesc, 6-8 × 6-7 µ, cyetalan very few
— salicinus Fr On old wood. Univ. July-Sept. Pilton dark brown, broadly umbonote: stem

slightly bloe-grown at base, becoming greener as 4 begins to dry, cyclidis pronged at apex, up to 85 μ long, spursa 7.9 \times 5-0 μ .

startlemanginatus Peck. On wood, Victoria Besch, July Pifeus whiteh, about 15 mm.

wide, with a close tomentum, gills barely reaching margin of pileus, slightly credid at edges, spores gobess, about \$\tilde{g}_{1}\$, often guitulate
themsentessulus Peck On damp wood, Univ. Victoris Beach, Jame-Aux. Pileus whitish,

tomentosums reck On samp wood, billy victors mean, Jame-Aug. Piteis wintset, tomentose; spores 6-7 × 41-6 µ, cystidis bottle-shaped umbrosus Fr. On pine of saedust and thep, Kennes, blinkil, Sept.-Ogt. Pileus large,

umbreause Fr On gone of savdust and dripe, Ketores, Intinaki, Kept.-Opt. Pittus large, umber, giab brown on edges.

Volvaria gloiseephsels Fr In an alfalfa field, Utair, June. Pittus vicood, large margin attriate, express 12-10 × 7-8 a. in certain found, volve thin.

- pubescentipes Peck. In mixed woods, legolf, Aug. Pileus white, small, stem densely pubescent.

— pixalita Fr. Not annommon un the ground at damp woods; Unev. Vistoria Boach, July Bept. Pilava i-3 cm. wode, white teconing dilitativ resp. darker or united, mastely addity, mai visced, gills free, creweled, atem onled, white, glabecus, volve whate to brownish, lobed, gargers 6–8. 2 34-64 in, credital, 36-70 A. 126.

speciose Fr Occasional on rich seil, Univ. northward, June-Oct.
- striatula Peck Infrequent on lawns, Univ., July-Sept. Pileus white, 3-6 cm wide, stem rather long; proces 8-8 × 8-9 µ.

Ontroppera

Belbitlus fragilis Fr. Rare in low woods, Univ.; June-July. Stem glibrons, yellow, spores. c. 12 × 6µ. See Buller (62, vol. III, and 67).

— tenser Besk. Infrequent on lawns in work weather in summer, Univ., Wincopey. The gills

dissolve, stem stig, faccid, speces 12-16 × 8-10 µ.

—vitellianus Fr On dung and debris in woods, Un.v., Juno-July Stem white, sourly, speces, 1-13 × 6-7.

Certinarius acustus Fr. In woods, Vintoria Beach, Sept. Pileus amall, whiteh, striate, with a pointed umbo.

aboviolacesus Fr. Batter commen in maxed woods, occasional in frondose woods, Univ.,

Victoria Besch, castward. Whole plant pale violet; riem thickened at base, percents— — annulatus Peck. In woods, Univ eastward, July-Sept. Priess brown, minutely seapnder of paties, more subchoose, reuge, abend 7.

ader of radieb, spaces subglotose, rough, about 7 p.

aromalus Fr In muyd woods, Vittoria Beach, castern Man. Pilem mitter smill, yellow-

brown, stem, gids and finds bluists-favender; spores rough, 7-10 × 5-7 μ.

— Targentatus Fr Yictona Reach, Sept possibly C Maximus

- symulature Fr. Common, purhaps associated with Bitc.a., Victor's Beach, eastern Mac. A fire speces, marked by the citanbar-red bands on the atom. - Attinuous name I m mured woods, vision's Reach, Sert. A strikens areases, with

wazy yellow pilean, and violet atem, flesh and gills, spores almond shaped, slightly rough, 12-18 × 6-8 µ.
Thadlus Prek. In mosey woods. Clear Lake, Sept. Pileas assall, howen, hyprephaneus.

Thackless Peck. In mosey woods, Clear Lake, Sept. Pileus anall, brown, hygrephaneus: stem distinctly motified by this whitish vell, spores 8-.1 × 5-0 m.
 Thrunnisefullyuse Pr. In woods; Minski, Univ. Pileus dark brown, stem with a whitish

band near centre, spores 8-10 × 6 µ, rough.

— aineaburious Fr In moods, Victoria Basch, Aug. Pilcus cunsabar-red, spores 5-54 × 7-54 µ, affebtly custs.

elementorments Fr. In a Sphagnum bog, Ingod, Kenora; Sapt.-Oct. Pilcus amail, cinusmon color; gills and stem vellow

- Continentus cinnamomeus var croceus (Schaeff.) Pr. In a bog; Ingell; J. E. Langs and G. R. Bashy, Sept. Tellaricalor Fr. In denducus woods. Univ. Pitrus large, counce-bull, ellis cross-secrate on
- 7claricolor F; În decducus woods, Un.v. Pilcus large, orange-bull, gilla eros-serrato cu edgos, spores 9-11 × 6 µ. eoloratus Peck. In woods, Univ. Victoria Beach. Pilcus creato color ta reddah-lan.
- spores 9-12 × 5-7 µ.

 communis Peck. In frondese or mixed woods, Ingelf, Univ., Aug.-Sept. Pileus whitish, bather small, spores 9-11 × 4-5 µ.
- Terocococoler Kauff In woods, Univ Stem percente by a suffron veil, spores 8-83 × 8-72, rough
- ereceoconsus Fr. In Sphagnum, Ingelf, J. E. Lazgu & G. R. Bisby. Pifeus small, confeceumpanulate with a perestect umbo, stem long, thoulone, spores 8-9 × 4-5 µ. cylindripus. Kauff. Amount Sphagnum, Ingelf. Pifeus viscid, yellowish brown, stem vised, blauch, across 3-15 µ long.
- viscal, blush, apores .3-15 μ long. decoleratus Fr In frondose woods, Univ Pileus 4-7 cm. wide, viscal, yellow-brown, gills casesous then cinamanon. scores subsisionee. 7-9 × 8-7 μ
- guis coscous ten consistent, operes suggestioner. 7-9 × 0-7 μ

 Ndistuns Peck. In open deciduas woods, Uzav, July-Sept. Pileus brown, gills broad, distant, sporse 8-10 × 6 μ, rough.
- -- elegantier Fr In Nuxed woods, eastern Man , Bept. Pileus very viscis, yellow to ferruginous, pills yellow at first, edges exclud; stem 4-7 × 1-2 zm., yellow with routy fibrils, with sourge-sate bulb, approx 3-13 × 3 µ, rough.
- Zerugatus Fr. In woods; Univ. Victoria Besch, Sept. Tuscovtolaceus Prek. In woods, Minak, Sept. Pilcus small, 1–2 cm. wide, brownish-violet, stem concelor, sporce 3–10. 4–5 µ.
- relamification of Displaymum, Ingelf, J. F. Lange and G. R. Bishy Plant small, dark brown, spores 8-9 × 5-6 μ.
- -- hamiterichus Fr In woods Minaki Pileus emall, umbonate, cinnamon-color with white facilis, spores 5-8 × 4-5 µ.
 herpetuus Fr: In damp woods, Univ. Victoria Beach, July-Aug. Pileus 4-5 cm. wide,
- visud, publish separable cleve becoming brownish-posted, gills elive-purplish as first; stem 6-5 × 1 cm, island-purpen, the fillow, bulb zeargianto-depressed, with greenish fibres, species 8-10 × 5-6 s, slightly rough
- benpolitas Kauff In sandy confereus woods, Vieteria Beach. Pileus 1-2 cm., cone, unbounds, dark brown, stem with a whitab ring, spores 8-9 × 4 µ.
 Infractass (Pers) Bres. In woods, Victoria Beach. Taste bitter, spores c. 8 × 6 µ.
- punctate

 Hacinus Peck In lew (reguless or mused woods, Univ cartward. Whole plant blue, the
 - color permatung or drying; stem bulboue, spores 8-10 × 5-6 µ.

 Bignarius Peck. On decayed wood, Victoria Bench, Sept. Pilous 1-3 cm. wide, cananzon.
 - brown, umbenate, stem with a white sone, spores 6-74 × 4-5 µ.

 Theoristi Peak Under conflors, Kences. Pileus 7 cm. wide, hygrophanous, reddish-brown.
- easterned, racely in fromdone woods, Univ. Stem with scaly bands of dried gluten, aperes rough, 11 13×6 - 7μ . woods, Victoria Beath. Fibrus args, conspections, viseds, spores
- 8-0 × 8 μ elivenesse Peck. Amongst moss, Minax. Pilcus viscid, olive-gray-brown, 3

 † cm. wide; stem white and purple, bullsous at base, aperiss 10-12 × 6-7 μ, rough.
- pholideus Fr In damp ecoiferous woods, Kenora, Victoria Beach. Pilaus and stem scaly, brown, agen of stem violet, spores 6-8 × 3-6 µ
- płurniger Fr In deep caniferous woods, Victoria Besch. Pileus pinkish-contamon, large, fibrillose harry; stetti elavato bulbone, pale grayish-alac, spores 7-10 × 5-6 p.
- plartins Fr In Sphagrum, Ingoli; J E. Lange and G. R. Baby The fungus fits Risken's description. Pileus small, bitter, spores 7-8 × 5 μ.

Cortinarius purpurascens Fr. On the ground as mixed woods, Ingale; J. F. Lange and G. R. Bisby Pièsus visced, purple then brown, stem bulbous, apares 910 × 5-6 µ, rough — purpursophyllus Kauff. In mixed woods, Vistoria Beach estiward. Pilcus 3-7 cm,

reddish-tan, darker on disc vised, violet then heavin, stem whitsh, silky, with a marginate balls, apones 11 13 × 7-9 s. rough. Transhamoides Fr., or near In confidences woods, Victoria Beach Plants small, vellou-

greenish everywhere, densely innately allky, oder and taste near, spores 7-8 × 5-5 μ Probriceous Fr In woods, Minasi. Pileus dark reddish-brown, stein rusty-brown, spores 8-10 × 5-7 μ roush.

Trubrocinesus Peck. In mandy woods, Vectoris Beach. Fileus reddah-brown, steru söky, with an oval bulb, spores 9-12 × 8-8 µ.

sanguinesus Fr. Not exemusor, Vectoria Beach. Plants and throughout, taste somewhat of adults. Some 6-8 × 4 st., allably rough.

radish, spores 6-8 × 4-9 µ, slightly rough

semisanguineus Fr Common in coniferous woods; Clear Lake, Victoria Besch, castern
Man. Aux.-Sens. Gills blood-red.

Man., Aug.-Sopt. Gills blood-red.

- spherosporus Peck. In mixed woods, henors, Victoria Boach. Pileus and stom with a stransportler, users beliefed, speces first N. Sudian, parch.

straw-yellow, vacad pellids, spores 6-8 x 6-6 p., rough
- subputch-fedius Kauli D woods, Berns River, Lev Pifeus 4-10 cm., tan-gray
streaked with brown, gills purper, broad, subdistant, stem concolor, personate, sub-assudate,
spores 9-12 x 6., rough;

aubpurpurascens Fr. In mixed woods, eastern Mar. Pifeus 3-7 cm, vadid, bine violat then chefinit-brown, margin -nearword, flesh thick, yeatowish, pine blue-purple then brown, broad rises, regarded at stem, stem 4-6 × 13 2 cm, purplash autside and majdre, with an emarginate bulb, spores 3-63 × 6-6µ, algibbly rough.

consignate sum, spores stay & stay, augusty rough neacous Fr. Common in woods, Clear Lake, Univ and easters Man. Pilous rather small, very dark brown.

 vell'copia Kauff In m.xed woods, Virtoria Boach. Pileus and stem blue-greenish-violet at first, then yellowsib-tan, cortina eopous; bulb marginate; spores 10-12 × 5-6 µ, tuborculate, appointer, semewhat funderm.

— vialaceuse Fr. Rase in condersus woods. Ingulf, henora, Norway House, Vistoria Beach, A beautilia plants, with a installar deep violat soller. A speciation or two can attackly be found as August or September for example, a week spent in the woods at Norway House in 1001 modules in follow four sensorates there may easily the one addition, in mother beaching.

Crepidotus applenatus Fr. On wood, Ingell. Piteus whitish, glabrous, sessife, spores apperical, 4-6 µ.

— satolivais Fr. On old Porestus con. Univ. Filtus sessife, brown-town-now-spores 5-6 ×

 catologie Fr On côd Populus, coc., Univ. Pilcus sende, brown-tomentose, spores 5-6 × 4-45 a
 canabarieus Peck. Not rure on old loss of Populus. Matock and Univ. after rains in

christonermus Fee. Tolt race of one top or reputs, restored and only, some racis in July or early August. Pleas 6-16 mm wide, souther larged secured, gills showed, edges red, spaces brown, 7-8 × 5-3 µ. This attractive fungus has been reported also from the central-seatorn (*S.A.

 downalis Yook On old logs, Univ., Viotoria Beach, July Fileus yellowish with taway fibrillo se scales, gills bright yellow, approaching orange-yellow at first, apores spherical, about 6 µ, outlease.

 fulvotementosus Peck On old Populus, etc., Uzzv., Victoria Baach. Pikus hygrophantus, tawny tementose-ecaly, gills finibrists on odge, spores 8-10 × 0 μ.

haerean Peck. Oo old Populus, Unrv., June-Oct. Pileus visetd, hygrophanous, spens $7\cdot 10\times 5-6\,\mu$

berbarra Feck. On old Populus, etc., Swan River (det. C. H. Kauffman), Univ. Pileus estall, speech 6-8 × 4 µ.

- Compidetus nutrigenus Berk & Curt. On decaying wood, Victoria Brach. Pileus rather large, villoo, whitah, gills broad, spores spherical, 5-7 µ.
 Anniarius Peris. Hather commun. on all Demains ster, wordy on conference wood. Univ.
- supparatus even manere extract on our reputate. For Tabriy on contribute wood, Citiv to Yistevin Brach and cauthand. Pleas objected, a term central when growing on top a long, otherwise eccentric or actual, piecas manufely sonly, 5–12 mm broad, gills finishing on edges, apones 9–10 × 8 µ.
- revenutus Perk. On wood, Univ. Probably common.

 Flammula staticals by Careptone on old stump of Propiles, legal, J. E. Lange and G. R.

 Body. Plinu vellow atem controler, nonreviate rooting, agains 8 10 × 4 µ

 flavida Pr. On wood. Mast. Law. Plinus vellowsh with a whitsh continua below, against
- Sevida Pr. Un wood. M max. U nov. Pitrus velorumb with a whitish contina below, apores.
 8-10 × 4-0 μ, cystidus few, clavate.
 gurmappass Fr. Un wood and sax-dipst, I nov. Pitrus viscid. tan-colored, apores 6-7 × 4 μ.
- eystidia on exice and edges of gills, c. 50 × 14 x. **Hanta Fr It constrains worsts, Vectoria Beach Pierus 3–6 cm. wide, brown on disc, pale at maces, sporce 6–8 × 4x.
- as marges, sporce or 6 X 4 M.

 panetrans Fr. In receferous woods, Ingoti, J. b. Lange and G. R. Bushy. Pileas dark
 many hourse, gala soth ranky penetrating spots.
- polychron Berk. On decayed wood, Brob Hill and eastern Man. Pileus visced, 3-6 cm. wide, coange to yellow, olive-green on margin, gills with purplish-olive tinge, spores 6-8 × 4-5 m.
- mapless Fr $^{\prime}$ tommer on conferous wood, sometimes on wood of decidious trees. Clear Lake that $^{\prime}$ that $^{\prime}$ vectoria Beach and epithward. Fileus dry tawny, sporrs 5-8 \times 4-5 μ
- spacerosas Pr Rather commen. a constrous areas, and on associat at 1 ms. Pileas sulphuryellow, grandla present, apoes 6-8 × 4-5 μ.
 Calara hullblaren hand. On hore stage, I are and Victoria Beach not uncommon on dung.
 - rultures in the laboratory. Stem bulbous at base, sporrs 12 15 µ long. I histrated by Hulber (82, vol. V. 386). capitlaripse Perk. In grossy woods, rarray on lawns, Univ. and eastern Man. Stem.
- filtium, firstens, espitate sterile nells on edge of gile, spores 9-12 % 5-7 µ.
- examples resum on toward matter wrongs is returna tream. Jusy. Polesia 8-12 mm wide, asternals statisticate hygosphianous galls annuately white florecusers on edges; etem 5-7 cm. X. I. 11 mm. greenish-blue, expressilly become, spaces 8-10 × 4-6 µ, sterile cells no edges of
- Dakotentia, 883, but not formally described by him ... Hypnorum Fr. Common on most to resolve areas, Clear Lake, Victoria Beach rasts and
- Spores mostly 8-40 × 5-6 μ, as has finant experts, according to Res 11-15 × 6-8 μ

 Hypnorum var Sphagnorum (Pers.) Fr. In a log, Ingolf. J. F. Lange and G. R. Busby
- Pileus larger than preceding, when very long.

 Tinevita Peck: On nawdust n an empty see house; Univ. Pileus hygrophanous, cinnamen, stem convoicer below sightly prupose at apex, gills white on edges, sterile cells canitate.
- stem concision holiase alightiv prumose at apex, gills white on edges, sterile cells capitate, sporces 15-18 (rarely longer) × 8-10 µ pulsascenar Gill. On one shaps and on the ground so pastured woods, I nov. Pileus smooth,
- pulsescene Gill. On cow damp and on the ground in pastured woods, \(\text{Triv}\) Pileus smooth, stem stupidly pulsecent, sterile cells expitted, spices 9-13 × 5-7 \(\text{g}\) ravida br. On savidus, \(\text{Iniv}\), The Lange and \(\text{G}\) Bisby. Pileus ochraceous when dry,
- apores 8-10 × 4-5 μ tensora lr - Cemnon anyonet gram n Man. Spores 12-16 (20) × 8-0 μ tensorades Prck - On delete, etc., Later eastward. Paleus sett, hygropianous sterile erile
- teremedes Prek. On debrie, etc., I niv eastward. Paleur soft, hygrophanous retrile ords expitably spores 73-10 \times 4-5 μ .

 Hebestorms abbidulum Prek. In words, Piny castward. Phras cale lan, stem more or loss
- bullous at base, sporre 9-12 x 5-6 µ, systida sylindral > 20 x of the first white and close to low colorist Feek. Rather common, victora Beach. The plants grow in the first white and along the beach, amongst the few brists or shrubs present. "The specification to be the sand
 - saving our owner, amongst the leve heries or structe present. "The myceluum binds the saud libto a globose mass which address to the base of the stem." — envastalintferens Fr. In open decaluous woods, I'mv. Filess tax, odor strong of radeb, nills with bends on editor in norm 10-124 × 5-7a. amoulate.

Habaloma gragations Feek. In grass or under shrubs, Univ. (bst. Plaus 14-2) cm. wide, seen, smooth, tas, darker on the brood unboo, gills samagisate, edge water, stem 4-6 cm. X-9-5 mm. bollow, herwards, neady above, with a cortina at first, odor of radish when cruibed, cristian aconc, encores 9-11 X-5-6 s.

Thiermale Bros. On the ground in wooss, Univ The plants look like Bressdoin's illustrations, odor none, taste slightly bitter, ancere 1,-13 × 6-7 u.

Hongicaudatum Fe In Sphagnum bogs, Ingolf, Norway House

Priesophasure Fr In sandy woods, eastern Man. Pileus --35 cm. wids, conic-campanynate when young, tan with darker silky florits; gills whitsh on edges, stem solid except for a small tubble, nonethat cortinate; process 5:10 × 5-0 μ. Η passureme may be included here, same of the secondary over calibrated in June.

7-simile Kauff. In mixed woods, Clear Lake. Spores 10-12 × 6-7 µ; sterile cells on edges
of gills clavate, apex the kened.

or gime curvace, apex university.

— sinsupiasans Fr In woods, Vistoria Beach. Stem stout, souly, spores with hyabne aproulus at each end, odor of mustard or radiah.

 walatura Petk. In weeds, Univ castevard, Sept. Prices obstaceous aemesthet vesich, stem notices, white at first, with remains of cortons, sporce 8-1 × 5-8 µ, cylindrical sterile cells on edges of gills.
 In more wasternamen Audit. In more woods, Visitaris Benefit Jahr-Aur. Places about 2 ms.

Bnocybe saterospora Quél. In mused woods, Visteris Besch; July-Aug. Piteus about 3 cm. wide, stem with emergenate bulb, spores 0-1. × 6-8 µ, with large proportions, cystidia aboutdant, c 50 × 18 µ.

aduzzkani, c 50 × 18 µ
Tatripes AU. In mised woods, Vistoris Reach, July Pièrus small, fibrillose scaly, stem
dazk, spersu 10-12 × 4-6 µ, zmouth.
Drumnessens Edre I. o sendy woods, Vistoria Boach. Pièrus 34-64 on. wide.

emannon-brown, darker at margin and where brussed, covered with a matted sensite temestum, plane with a slight ember, gibs attacts, close, edge paire, stem 2–3 cm \times 4–7 mm, yellow-brown, spores subreadlorm, 7.0 \times 4–5 μ , cystidia none, but tufts of sterile cells and also long has— λ s ordin on edges of gibts.

-- canazarata Fr In danp woods, Univ. Victoris Beach Spores 8-10 \times 4-6 μ , cyatulia none, sterile colls on edges of gills.

-- Cackai Brea. In dendusus woods, Univ. Stem with a bulb, spores 8-10 \times 4-6 μ , sterile code on edges of gills.

corydatina Qudi. In dendusus woods, Univ. Pileus to 7 cm. wide, συνοgreen on disc, oder strong, stem bulbous at base, solid, with greensh tint when cut, spores 8-9 × 5-6 μ, evidids so cills.

Tautheloodes Peck In frendose woods, Usav Spores 9-10 × 5 µ, cyvitalia £0-70 × 14-18 µ, cyvitaliais at apex.

Fastigists Dose. Exceedingly shundant in damp woother in July and Aug. in frendose woods.

across southern Man. Pilous very control yellow, speces 9-12 × 6-0 µ.

Trastigiella Atk. In freedose woods, Univ

Secusiona Berk: In woods along the Red River, to Vietoria Beach, and costward geophylla Fr. Commen in frencions or mixes woods; Univ to Vietoria Beach and costward. Pileas white.

— geophylla var Interitia (Wannu) Stev. On the ground m low woods, Ingolf; J. E. Lange and G. R. Birdy. The pitters or reddish and G. R. Birdy. The pitters or reddish plane Kand. In money sandy woods, Victoria Brach. Piteus spotted when most, silky.

yellow-brown, stem short, silky, gills white-fimbriate on edges, spores $8-.0 \times 4.5 \mu$, sterils cells on edges of gills

— ?Godayi Gill. In woods; Victoria Beach. P\u00f3rss turming reddish, spaces 9-10 × 5-6 µ systoka direk-realized
— grissosacheosa (Peck) Earle. In sandy conference woods cast of Beausequar. Pricus 4-10.

um wide, innatély silky to appressed easy, electric-breen, unablocate, etcm $19-20 \times 1$ mm, yellowis-brown, silky, gills clay-once emarginate, sporce $9-12 \times 5-8 \mu$, eyatolia with apex systalists.

Figure 19-25 Sear. Along greater make in foundate woods: Univ. Prime layer, who-cross-

 jurness (Pat.) Sect. Along grassy paths in fronties woods, Univ. Pleas large, with-co with a semi-fragrant mesly oder; spores 10-13 × 6-7 µ, starils cath clavate.

— lanera Fr. In woods, Kenora. 10–15 \times 4–6 μ

- Inscribe Hanugintess (Bull.) Sacc. On droayed wood, Pinawa. Gills rufescent, sporm r. 10 × T.M. covered with blust projections.
 heptocytika Aki. In nuxed woods, Pinawa. Pileus 23-31 cm. wide, Soccoss-stuly, umbosste.
- Ispaneyatia Alk Ir nuxed woods, Pinaws. Plana 2]—3] em. wide, Scotcus-stuly, umbossis, an i-trem, stem vellowsh, solid, spores 8-10 × 6.5 µ, inequilateral, cyatalia c 80 × 18 µ, thin-walled.
- Iaptophylla Atk Rather common in mixed woods, Victoria Brach Pileus squarrosssoily, spores with large modules, cystolia nose.
 Wiserian (Roud) Kuuff Not insconnon in frendome or mixed woods, Univ. Pileus annall.
- Blacting (Boad) | Rauff | Not uncommon in Propose or mixed woods, Criv | Pileus sanall, blacting | Boads | Bands | Ban
- Pileta 9-16 tans wide come then unbounts, speer 7 10 × 6 pt.

 pallidipes Ell & Ev In freedoes woods, Univ. Victoria Beach. Bleen whitiah, speers

 7 0 × 5 pt., systelia handarit, thick-realed.
- pyrisalors (Free Brew In Levations woods, Laiv Flash of paleus and stem turning red when ext, odor spicy; spores $9\text{-}10 \times 6\,\mu$
- rismons (Rull) Pat. In morely woods of Privas Bunkeisnes, cast of Beaumpour. Pileus obsycolor, thrillione-rismon, subscale on dier, nonewhat umbonate, 14-3 cm. wide, galls almost free, but with decurrent some on stem, broad, datant, whiteh, stem occoolor, alky, praisons above, spores 9-11 × 5 d.g., cystolas on sides according of galls.
- rismonateles Prek. In open frondrise or conference woulds, l'inve and eastern Man. Pileon with a promisers, sometimes subacute, unite, spores 7 ill x 4-5 µ, cystafa none rysfetula k auff. In som woosts, [agod], in v, v, vricon; knech. Pieres small, spores 8-il x
- S=0 μ, cystidia abundant, apex often cystillate alreducta Fr in frondoce woods, line Oder strong, spores 9-10 × 8 μ, cystidia 15-20 μ
- almidenta Fr. In frontiere words, I niv. Oder strong, spores 9-10 × 8 µ, systalia 15-28 µ, broad broad Strongerman Ell & Ev. In sandy mixed woods, castern Man. Plants greateless to sub-
- computers, gilt decurrent by a line, stem hellow, spaces $0.11 \times 5.6 \mu$, systidia moss, audidestricts Naill. Commer in francise or mixed woods, Univ. to Victoria Bench and cast ward. Phrus 1.3 cm, wide university, gills white at first, stein rufess, spaces $8.10 \times$
- 5-6 μ, cyrisin on solve and reigns of galls subsolvaces (Pech) Earle. In standy raised woods, cast of Beausegour. Pileus come them ambonate 2.3 cm, wide with assistanced fibria, stem solid, sub-hallonas, mores 1-0 ≥
- antiboreste 2 3 cm wade, with aggiutanated fibrile, stein solid, stab-bulbous, spores 7-Φ × 4-Φ μ, evritain on sides of gills up to 70 × 15 μ, stauter on edges of gills, thate weilled, with yellow contents.
 Turnbortan livre: In open sarely woods, 'vectorsa Beach: Phirus gray-tan, silky-éhrillose to
 - Turnishtum litres in open manny woods, vectoria functi. Flates gray-tag, many-depitoles to maluscally sumbonate. 2-3 one wide, stem openione, 320–60 × 6 mm, hallows at base; sporess very angular tuberculate, $7.9 \times h6\mu$, cystidia on mine and edges of gills, c 65 × 18 μ , will 1 μ thick, spor crystalistic.
 - wielence/felfe Perk In worde, Indian Hay, Univ Pileus 10-15 mm. wide, subconie, ellip; stem and young mis vides, spores 9-10 × 4-5 µ, cystdat x, 63 × 14 µ. wissata Ali In frondom or norted words: 'Univ neutward Pileus 3-3 cm. wide, sheataust-
- wingsta Ath. In frondose or acred words: Univ neutrons: Phrus 3-3 cm. such, chestatherm on tumbo, paker ins cherebret, becoming sub-timese, galia close, seconding, states 30-40 \times 3-5 mm (as with a whole smort; spores 7-10 \times 5-6 μ , systidas thick-inalised, offer crystalises at spec.
- Nancowin helitals Peck: On old conferous wood, Victoria Banch. PBens 1-2 cm. wide, rusty-brown; sporce 6-5 × 3-4 µ.
 sentunceshis Fr. Common on old develuces wood, Insulf. Univ. Victoria Banch. Plans
- emistanestia Fr Common on old decidious wood, lagaff, Unit', Victoria Beach. Piless
 1-2] em. wide, hyprophanous, the color of ripe olives and strists when mosts, appearing silliy
 under a lens, appear subcessions, 6-6 × 4µ.
 Marricala Peck D in decord Possulas and other wood, including confereous wood and mer-
 - Ingricose Pect. Un decayed Populae and outer wood, including controls wood and intertions, (nor to 1 setons Beach, and eastward. Plieus small, unbonate, hygrophenous, somewhat striate when moist, spores 7–8 × 5 µ.
- somewast sectors when mount, spores 2-8 × 3 µ.

 Myssests F in Belgagrunt bogs, Ingelf Goll, and det J. E. Lange), Minaki, Whitemouth.

 A fine species, with obvisceous cag and very long stem, spores 16-20 × 8-9 µ. Murrill

 (N. A. Fines, 3. 185) found no North American sporeumen and Kauliman does not include it
 is the Americanes of Ministern. It is common in "monitor." but was indetermined until

Dr. Lands saw St.

Manazoria pudiadas Pr. Azzongst grass, Univ. June-July. Pilous dry, spores 11:14 × 7-6 µ, systidia on solens of silis.

convenience regime to game.

""semillates" of Cook's Illustrations, Fl. 509A? Cotation on old devolution wood, Univ.

Pileus chaocistic-blackish and glottonous when fresh, failing on drying, I 2 cm. wyls, prime

3-3 cm. long, c 4 mm wide at home, 2 mm, at sper, gray-brave, gazouliar-curvly, gibs

whittis then brown, meeding, spores 7 9 N. 4-5µ, smooth, hower, sterile cells on edges of

gills: 4 0.9 x 10µ. Thus is not 5 x merificate free & Brossom of the descriptives, and

paints are so the Cook's clustrasions that they were recognised at a state semi-arbitrasitar's P. In these, Monten, I have P-bras varied, agrees (2-16 \times 7 α_{pc}), Taignate PT. Amousts moss, Kentons. Phese sampantalists, slightly aduly, I can wide stem becomes in table restributions, stores P-11 \times 5- α_{pc} , sterile cells on addition of all as sometimes.

hair-lür—
talhaslına Fr In gram. Victoria Bosch. Pileus 7 25 zain. svde, very hygrophanous, dark
tobacco-brown when mout, fading to mahelune, gilla white at edges, atem hew-m, with

wintish fibrils, taporing dewoward, spores 6-7 × 4 µ.

Twernalis (Peck) Sace. On old wood and debris, Univ. Victoria Beach, May June. Pileus.

1.3 cm. wide, hyperoblanous, reem cartifactions, belikes, securiv. 2-4 mm. wide, sources.

1.3 cm. wide, hygrophanous, riem cartiagitous ballow, exurly, 2-4 mm. wide, sparse 6-9 x 5-9s, sterile cells on edges of gills eaststate.

— vervacti (Pr., Quil. In a grassy samily field, historia Beach. Elleus becoming place.

yellowsh-brown spaces 13-16 × 8-9 μ atente cells on edges of gills more or less esgetate.
Pasillus involutus F. Rather commercia words, Universativant. It is sometimes abundant in the freedom words along the Red River. 7-10 × 5-6 μ.
— manuacless F. Rarely sees on constraints word or navigus. Grads. Into Ingelf.

Pholiota adiposa Fr Occasional on eld wood, Ingolf Manahi, Victoria Beach.

 alloceverulata Peck. One specimen from a wound at the base of a aring Aver. Nepo-do, Winaspeg. Pilcus large, vised tawny-reddish apprened sony, spores fused: 10-14 × 5-5 µ, exatida not seen.

— ensemala Perk. On very decayed word or amongst leaves, fedian Bay, t.mv, Virtonia Death. Phina hypothanous, thesitablerown fishing to relievish, spores 6.9 (1,0) × 4.0 h, etchic cells on edge of pills. Three relievieum exam.ned by 1, 0. Overbolis, one noted an astermediate with P confragon. He (Ann Missouri Bot Gard. 14 128) knew it only from Pasadona, Calif. vis. 1927.

Mattaria Fr Common in fruedose woods, Us v., June to mid-July. Pileus 13-3 cm. wide, smooth, hygrophanous, ball, spores 7-9 × 6-5 µ.

— easewate (Pres) Fr Not uncommon on the ground in conferour woods, Ingolf, Kenera.

Been with a suggestion of a volve, spores rough, 12 16 × 8-10 µ.

 — cumfragues Fr Common on rotted, money trunks of Brisis also var jupprylve Populus, etc., Univ., Virtona Beach and material, May-Aug. 6-6 × 4-6 µ.

— destrusees Brond. On old wood, Gitte. Y Johnson. Phivs pallel, spores 73-84 × 4-6 µ.

discular Pick. On old wood, I nov, Authoria Brach. 83-10 × 4-6 µ.

darsalas Pick. From burned stacks, Env. Phivs relieved 3-5-6 cm. wide: sucress 6-6 ×

durantina Preck Prom hurset stecks, (nov Phras yeldowsis 2-3 cm wrise, sportes 0-18 x
 2-4 p. The plant resembles a Birtysharia, and Dr Overheids insignest that this shaull form is comparable with S. obtuvals Pr.
 septia Pr. Three collections in leaf-modd, Victoria Beach. Spores 10-15 x 6 p., cystidis.

erobids Fr Three collections in leaf-mold, Victoria Beach. Spores 10-15 X 6 μ, cyclidia.
 present
 erimanesia Peck. Occasional on old deciduous word or fallen branches. Univ. esstward.

A distinctive reddesh, scaly, small species, spores 6-8 × 4-5 μ

— Johnsonsans (Prch) Atk Not uncommon in leaf mold in deciduous woods, Usav Pileus

yellowish, with few or no scales, apores definitely purple.

—manginata (Batech) Fr On old wood and anwdust, Univ., castern Man. It has been especially contains in a poorly lighted ser-boure on aniwisst, and these plants are often very

enamptione, the stems abnormally elongated. 7–10 × 4)–6 µ.

—mustabilia (Schaeff) Fr On old wood, Vertoria Beach June Flacus to 2) em wide, smooth, stem stelly, spores 6)–6 × 4–5 µ, amooth, cystrian noise.

— Tymyneneidea Pr In mom, Clear Lake Pileon 10 15 mm. wide, strinte half way to centre, very bygrophanous, drying first 64 the centre, gills admate, manulus pear apex of stem sources 8-10 X 6-6 at truncate, sterile cells on celeves of silks.

- Pholiota pracons (Pom.) Fr. On the ground, Univ., June. The pileus fades to whitsh Not commonly found to Man.
- Trigidings Prok On old wood, Univ Dr Dywholts was not sure but that the specimens belong in Famezzia. Spores 7 8 × 4-5 ja, cystidia funiform, brown, 25-35 × 9-12 ja.
- Trugosa Peck On assocuet in an err-house, I my Plants persistently ferrupnous, spores 9-12 × 5-6 a. amooth. - Schraders Peck) Owrholts. In woods, Univ., Victoria Beach. This large and striking
- medies was reported a "The Funci of Manutoba" as P (absorptions, but Dr. Overholts morals cost at ground be that because there are absorderd most due. The values and store however, are scaly as a P fulconquerous. The spores are purple, and one sooks for it at first in Stropharia, where Poek placed it
- spectabilia 27 On failing logs of Ager Negundo, etc., Univ. Victoria Beach. Specimens. torre found during four supersays autimus, 1927-1930, on a large log out down about 1924
- squarrosa Fr On word, Minaka, Univ. Victoria Beach Pilous somewhat viscid, spores 7-8 × e 4 4
- somermonidae Peek On stumps and loss of Populus, etc. Univ contward and around Lake W-snapeg More notronou in Man than P squervoso, plants more escapitose and sealy
- than in that aneties, accres 6-6 × 3-4 a. - temnophylla (Peck) Sacs. On the ground at the edge of woods, Virtoria Beach. Dr. Overholts doubts that this species is distinct from P process. He found the spores to be
- $8-11 \times 6-8 \, \mu$ m the specimers sent hom. Pluteelus coprephilus Prek \ot common on manure piles and in dung culture in the laboratory, Univ., Winnipeg. 12-14 × 8-9 µ
- espansus Peek On debru and rich seel, Matlock to Univ 10-13 × 7-8 µ - reticulatus Fr. On old wood, Univ. Viotoria Beach. Pieus I 3 cm. wide, very viocid,
- purplish-gray, spores 10-12 × 4-6 µ. Tubaria autochtona (Fierk, & Broune) W. C. Smith. On bare binek soil, Univ. Pilena
- 5-10 mm wide, white, solky, gills white then brown, decurrent, intervences; etem 10-20 × 1 mm. white, nearly smooth, myceliond below, spores 7-8 \times 4 μ , uniquitulate. - furfurness (Fers.) W. G. Stuth. Common on wood, earth and more, Univ. northward.

7-9 × 4-6 µ Poradarementer

- Hypholema appendiculatum Fr. In woods, I niv., Victoria Beach. Pinns up to 9 cm. wade, became drawing to assisting, appear 7-9 × 4 a greated a on sales and others of stills. Artemisiae Pam. On sawdust in an see-house; Univ. Pileus 2-6 cm. wide, dark chestnut.
 - house and numerousity proceed with white alky fibrils when most, tan and amparently glaberous when dry wills whate then re-min often with slower broad class, oden whiteh atem 5-10 cm. × 2-6 mm., whitish promose at apex, striate, sporce 8-10 × 5-7 µ, stertie cells and a few civitudes on extens of salls. Dr. J. E. Lange considered that the fresh specimens were like the points he could H. Artemotor in Denturk. It appears defunct in the ice-house,
- in the field it might pass us H discretion or a related species. - Telepropure C S. Parker In woods, Birds Ball, Un.v Pileus hygrophanous, ochraneous on drying, livid when mostened, stem slightly strate at apex, spores 7-9 × 4-5 µ, cystidia on edges of gillis, a few on sides.
 - Pearemetum Fr In Irondose or mixed woods; Clear Lake, Univ Plants solitary, speres 6-8 × 4 a., cystidia on edges of gills.
- elementions C. B. Parker (III Immuse Decrees and Bishu, 21 113 not II Japaness Park). In a cellar, I now recently thus species on the woods over Resuscency. The functor was common us a "dur-out. in 1927 and 1928; it has not been seen with certainty since the fillingin of that celler. Here, as in the top-house mentioned above, accesshat almormal conditions
 - result in modifications of the plants, but this species did not seem to fit any known descrip-- fesciculare (Huds.) Fr Not uncommon on or near wood, Univ to Victoria Beach and eastward. The gills goon become green
- hydrophilum (Bull.) Fr. Campitose in woods; along the Red River and eastward.

Mynhalama Innerture Perk. Common or lawns or senetimes in words, along the Red River to Victoria Beach

- Irranulary C S Parker In woods, Victoria Beach Sports approlar r S × 4 u A moriest collected at Clear Lake on a decayed stump has very pregular sooms 9-11 (13) × 6-8 µ. definitely purple, pileus henre, scaly about 2 cm, wide. This species was not found described in Hypholoma or Inocybe

Machrymabundum Fr In woods, Univ Palyteight Fr. In a Spharmam box. Involf: J. F. Lance and G. R. Bushy. Pricus small.

yelkwash, brownish at centre, stem very long, taway, spores 9-11 × 5-6 µ, brownishpurple. Perhaps better placed in Palceybe. sublateritium Fr. Common on wood, I not to Veteria Beach and castward. The Mani-

tobs reflectuous have sometation been made in early June (1929, 1931, 1933, 1935) perhans because cold weather prevented fruiting in autumn

valutinum (Fr ! Quél. Common in words, on lawns, sawdust, etc., Univ. to Victoria Beach and eastward. Spores 10-13 × 6-8 µ, slightly rough - vinesum Kauff. In frondosc woods, I nov. Pierus 15-20 mm wide nearly black when

dry, stem with a non-colored user bulbons at the base grown 5-8 V 24 Su. attention namely. This arems to be hauffman's aneries, described from Michaele, it has been found but more in Man Peallista abruptibulba Peck Rometones abundant in frondose or nured woods across Man.

Pulma targe, whotash turning vellow when rubbed, atom with an abount built at base. One

of the best edible mashrooms ervenels Fr. Not presented in fields, grassy woods, etc., I not to Victoria Beach.

compositio Fr. Councily cultivated, sometimes on lawns, etc., in Man and Sask. The commercial production of mushrooms in and near Winnippg probably averages about 100 Ib per day. Furgi paragite on the mashrooms have raused little damage. Many facts regarding P compositive are given by Buller (82, vols. I and III)

- disclautive Perk. On the stound in mixed wonds, buttons Brack. Prices small with reddish fibrils, annulus persistent, sporce 5-6 × 3 µ

- hasmorrhodaria Fr. Barr .s. woots, Berero R.ver, Vattoria Brach. Pileus scaly, the Seeh and stem turn red when broken, apprec 5-7 \times 3-4 μ . - Maconyross Peck. In or near words. Law Winnings. Pieus nearly sovered with chantaut-

brown appressed scales, stem bulburgs, annulus riouble, appres 5-7 × 4 µ. Redmani Peck. Occasional on lawes, I nov., Windower. Pileus glabrous, white becoming ercom-colored, stem short solid, sussess a fi V S u

- subrufascens Prek le frontese words, I'm,v Pileus large, odor of almonds.

Brathesa mandanate Bots. On stoke and recess smad were Resuppose and at the Park Pileus I 2 cm wide, campanulate, watery brown and strate, then imbelline and atomate, gile broad, subdistant, edge whote, stem 1.5 cm. long, 1.2 mm. thick, whitsh, spores ID-12 V Su. evetalla present.

- Tournivestita Berk & Broome On dung, Univ. Pileus 8-10 mm. wide, constely silky, gray longer, stem very slender, palet anores mostly 14 × 8 u.

~ unshenate Peck On old wood, Lnev, June-Sept 14-16 × 7.9 μ. Pullacetha familiacili Ev. Very common amount your in damp periods Cally north and eastward, usually about June, supertures in September Scores 12-16 × 8-10 a, slightly

- mardaria Fr On horse dung; I nov Spoces purplish, 11 18 × 7-9 µ

· Preservida Fr. In dano woods, Birds Hill, Univ. Source 10-12 × 6-6 p. cratidas present. - subviscida Perk. On nastured ground lawns, and your, I not eastward. Pilcus I II cm.

wide, alarbily vacuel, dark brown then otherscenes, salls whitsh at first, stem brownish usuately fibrillose, sometimes with a suggestion of an annalus, spores 7-8 × 4-5 µ. ude (Fr.) Patteille. In rich aul. Un v. Pileus 1.2 em wide, olympoous with brownish

sentre; stems long and alender, spores 17-20 \times 9-11 μ Strombaria carantilla Ress. In froncose woods, Univ. Pileus 3-6 cm, wide, dark waterybrown then tan, sub-vised, assulus strate above, sometimes evanescent, spores 7-9 ×

4-6 µ; sterile cells on edges of gills morate.

Strombarta autorous (Perk) Atk. As rounted not in "The Funci of Manutcha." Kauffman's proof of the funeus "se far west as Westrowe" was an error. There has preently come to light a specimen collected perhaps thirty years are, locality not known but probably m Man. This doubtful reverd is the only one. See Huser (82, vol. 111)

posthyroides Large. In a Sphagnum bog, Ingolf J. E. Large and G. R. Bisby. One aperimen found and recognized at case by Dr. Large to be his species described from one

Socialty in Decimark. The apper print is purple, the appear 6-10 × 4-4 km, evated a bottleshared a 20 V 10 v. This provides another example of the wide distribution of function and of the small knowledge of the sames of many maries semiglobate 5: Common un dang, sometimes on voil, Norway House to Univ., Man.,

Suckstoon, Sask Described and observated by Buller (82, vol. 11). - starcoraria Ir Common on dung Univ Very similar to or identical with S associated to The more are concentral locate, reaching 21 or even 24 a at itseth. Cretidia have not been found on the sides of the gills.

Melanespores

Anellaria asparata (I.) Karet. Common in hour dung, Neway Houre to Calv. Discussed and illustrated by Bullet (82, vol. VI). 18-22 × 10-12 s.

Convinue" aphthosus Fr (f ingopide karet). In a root-reliar at the l nev, growing at the bases of decaying superirts of Popular 1929, 1934 and 1935. June to Sept., plentalul when it appeared, any found on or near and send to hast hilldown. Winniped Det. W.F. Harris, who finds myeelium of polysperious rightures to hear clamp connessons, such pure cultures grown on strate horse dutig and son produced good fruit begins. See Fags. 1-5.

attenuentation by Common in Man, and collected at PAs Lake Such. The only can in Lignerolous, and occurs around stumps, over bursed roots, etc. Bre description and illustentions by Buller (84, 82, vol. III).

breetlanging Bullet (noney median, 82, vol. 111, 208). Near C Jessens, of which it might be conmissed a variety

- enematus Fr. Common on lawns, roadendes, etc., in Man and at Baskatoon, Saak. Fully described and phatrated by Buller (82, vols. 1 and 111) and by 1. Mosney (134). condisposeus Gibbs. Not uncommon as a coprophisous species, along with C currus and

f ephractus (c.v. Wanning The severa are heart-shaped. The baseds are usually 4-received, but a furnishing form of this openion was found in 1935 by W. F. Hanna on old for stone time For 81. Jonestond (Ann. Nov. Long.) Lyon, 77, 1933, n. 30 of respectal property both the 2-special and 4-assered forms of this source in France, and considers that C. randienorse is a synonym of the earlier C. Potesillandis Onfl. sertinatus Lance. On oid done of home or row. I now. The funeral raises up to the labora-

tory on the dung gathered in the woods in Sept. by W. F. Hanna. curtus halebbe if plantilesty flutter, 82, vol. 1 60). Common on dung, particularly of

here. It is recretimes found in the field, and usually found when fresh herse dung is placed in a damp thamber, appearing on about the tenth day as the first Again. The very young pilets is lexy-red, the expanded saless leave minute reddish or whitish scarce intersported with clayate harm, the small due is finally decremed, the accrem are deep black, systems are absent. See Buller (82, vols. I, II, IV), and Figs. 6 and 7

- demosticus Fr. On out logs, expensally of Cleus energose, Coay to Victoria Beach and postward. The runs price from a reducab vellow Corn.um (C) approximant Link's between the bark and the wood, and have been grown from this in the laboratory at the I nov. The species somewhat resembles (mutorrise, the spores are brownish. Figured and discussed briefly by Builer (82, vol. 111). Copyrium regions (e.e.) is perhaps the same species.

enhancement Ft. Common on dura, emposally in laboratory cultures, I may . Winnerse The name "ephemerus" has been applied in the literature to serveral small Courant, it is here used for the form with brownish pales hearing symmetrous sylundrical or pointed have (pilory earlis), without systelia on the gills, the pilet expand at right. See also Buller (82, vol. 11), and Firm 9 and 10

* The expressor of the success of Communicational on Managina as from the thorough and extractor bank of 4 H N Bullet and W F Stenne

- Coprinum flavolenatus Buller (nomes notion, 82, vol. III 3-8). Near to, or a varsety of, C Jopupus, Irom which it differs in having a yellowish-while down composed of thin branched cells, and goore islender criticia.
- Resemble Fr. Arbeingst lexive and grave in deriduotic words, Univ. Basier (R2, vol. 13) recessions: 6 households to be a pyronic in of 1 pifcetils.
 Manusculi lange of 1 excession Fr. On old dutag probably of house, Univ., Bept. One or
- possibly both of their species seveloped in the laboratory from the dung collected in the woods by W.F. Hanna. The two species as described by langer are much able. Handwinness Berk. Mare on old cultures of home-thank. I now. Stem with a distinct annulus
 - at or below the middle, pairs a 7.10 mm wide, as h a remon tage at first and as easy mend stem up to 3 mm long, oports number to relorest NB × 7.8 µ evolution towers.
- higgspus 37: (probably) perhadring f. Renderius 32: as commonly resorted in the literature? Common on howe-doing in Main. The distribution of the literature is the control of the co
 - 11 and 12.

 language Peck. On old charred wood. Univ. Hr. Hanna found the specimens and species to specimens with a collection determined by Kauffman as C. January.
 - language Boler. 21: 1183. The horse duag in absention ruliforms after several screek. I no. Routestard and datamond breds by Stance (s2, vol. 15). It recentible is released by grown on duage instead of grown places, has a algorithy smaller depround due has again which delapsees at their edges instead of cemain up entire, and quoudly has a longer stem. Nor-Dan, 13 and 15.
- mastrochiaux Perc I Bru. Continue on heating stable manuse in Mais and chercher in North America and in Lurige very rarry relocated in lateratory restures. Percatorinate of manable length, or sometimes about. Gula wider than tower of t. Jospeya and, as can be seen in the field, held together by systable ourning autoblewsion. I Lucrated and described.
- by Boller (ER, vols. II, III, IV, VI) mbaneous FF. Continen on a lagnerolous specers around studies, risite, etc. n. Man. It is never ecoprophism. The handra are terramorphic the med cells on the pictura are considered and not commented with reventals of relations undashe. Described and distinctivated by Buller and
 - (82, vol. 111), maker Karya J. S. Lange. On very old home doing in lateratory, Lriv., roll. W. F. Hunna. Dr. Hanna finds that the secondary mirelium hears clamp command. Jouernal (Ann. See: Lanné Lvas., T., 1832), ii. 21, of research considerer. Insert to be scientises.
- (Ann. See Janné Lynn, 77, 1833, p. 21 of repent) considere f. more to be scentism with C middle? Pr. See Egr. 15 of espores.

 manuscriptus Fr. Harr on indicate hower stong in the laborators, L. nov. Approximate 1912 and 1923 cells. Districturable by its elements incleased notice, and by the accuracies.
- feature of presenting baseds normally trefrequenties and treporous, as described and illustrated by Buller (63, vols. II, 111)

 -- niveas F . On brows tang. Care Pheus snow white covered with pulversami fixed.
 - See Buller (82, vols. II, III, IV), and Miss Mounce (132, 133).

 seatus Schaeff Occasionally seen at W. nappe, but this "species," as illustrated by Coving
- Pl 650, a undoubted is only a starved or depauperate form of C rossetum, participarus Buder (21 118). Evequeel in troops on room doug area most for alread five weeks in the lancatory. We hooppe "Sporses meall, mostle 6 in 3.5 js, the volv sporses in which the long handles are nomes me surremeded by only two participarts. The policies are not because to and doubt it assesses only dispute the male. It is emailed that C recom-
- review. In an white restored of gray mend on the poleux, and the mend-cells are smaller and emanuscrited with more numerous crystals of relevant retaints. New Figs. 16-18.

 —phaseoperus Kard, areas J. E. Lange (f. Resource Feek). From base of strong of Marques wheat, I are, W. F. Hanna, Lee Hanna, finds the function to be because, and that the
- greendary myrefunn bears damp connerson. See June 19-25.

 pilopatila Fr. Common amongni gram in woods in Man. The gills do not deloqueser, but Bullet (800) ponno out that it is a copennus rabore than a Panthyrvia heeause the inporestions and are dascharged from helow urewards, and the bandle are dascenbare. The polese

Commission Tournstellation Park. On old manufacult delays. Manuscon Austrean Beach

equinous lives. It lighter econome or dd word sir in Man. Pringe the most ap to demonstrate Annihologies of citizen St. 20, 1924 states that I restorate as homesand and that the securities movelum bears clamp repressions. Brancourt Best Alphand, 1884. Medi however and and Book clarks resolve taken in the nultures for advotabled as it restings. The Harrier fresh texts mentiogeneous and polysportus cultures of a 1 operation found in Manahighly, where answers the description of a reduction and purhaps also that of it describences to be without classes communication. New Fig. 20 of FreeLitenberg.

Santrustanus Hance - Prient's returne à autoire et letter mère et de mentionel tentes

of my fame is restored by bready. Print-haden from produced in the laboratory and the funger is described and abustrated by Danish's Newton 125. Apparently ted atherwise knows in North America. approximation Perk. Its locar manager I am. Approximate that approximation of the P.

Hanna who contributes to following data and hum 20-34. Plens at first colonder whole deports revived with whole most requiring postly if hydron upberray rells In 130 a as denoter together with all wich against rolls along 20 Mig. as the square riges, the passes horomer gray shows he notes and shight a tauna towards the agent and in rapidness should reserve and bloomy finally by outs understate and sold at he market up to \$2 mm on descriptor. Lecla blanch, concerns when control on order on what expelsion philosophy 20 20 at to describe among horses as convenient about 160. In shouldest up the other of the galle going from a treated approximate but atomic from the color of the galle francise & equated Morte as to NH teat or creatly and a tree or describe whete builder electronical upwards realed with owns wants she there in the prices. Source black in Ages, eleptotal with an amend seem more, mostly 134 × 8.s.

I sat brubes assess sends of an arrespondence and butted horse teacouty. This surrous treat electrical in particular of the conversety. Wantagong in the parameter of 1936 to 1936. The agreery germanate realth in horse-shang again and publisherous rultures unsalts produce majoration can be also after about 30 days growth on struct borne dung. This specue is better the lier and products burning as an more sparrous surveing, when payred together hell sets; far actual errors. Classes reportants are present on the desired seventeen. I

providencies may be det agreeded from C. sorres, which it recembles when the fruit landom are round by the phrate paletan and the absence of raylodia, non-the mins of the pulls stabletus Bulley 21 1 9 (segments in horse slong in taburatory radiums, 3 not 1911 to

1838 Associate to A contractor had contract at first military between mathematical and an experience of the contractor o became the other selds stelled and rather consists at the more or a created and describe on that family can't be due removes with drate of sound attached. Its Manna finds that the sports are during and larger than in C references, and that restains are present only on the relays of the galls in the processor is because they are present on both sales and religion of the giffs of C stellerus. See Figs. 35-36.

abstractive for 1 to show of our or house authored fresh and heat and advantage redicates I are. Hear, regarded bank selection devotes on the surface of the dung, and each of thesis igher took produce one to several gravata takete from tenders covered with fuggerous month pells presented a th creatable of carriers makes. Drovoted and displaced by Bullet (83, vols. Y. II, III), see also bliss Mouses (123, 133).

storquebous Ir Ant unresones on here dung in inherators returns, Lare. Whele merchan develops on the dung, and after four to me weeks the large frust busine appear The apper part of the steep turns black as the paleon expands. Her Paulier (88 and 83, sets 1, 42, 111 and 53, Hanna, 127+ and Mass Mouses (123, 123). For Fig. 20.

Coordinate on the and and control they for fluoring appropriate that present of a second stell

Private at first restricted on strong sedered on the order, shallfy barray breaks the spen, and by 77 hards an health and 1.5 min, as which account with finance detachable down contents. and of malter-fluids financets 20 dO . In departer, at the age, the down is appropried into tel'to on expunsion the private borrows second and aroundarly uplet at the manges. Calle black, second-d. Pyrtoda on the gell-edges offsytted, about 70 × 40 p, those on the sales of the gills sylindered, 120–150 μ × 40–60 μ , almost bridging the interfamellar spaces, basidas 4-speced. Stem up to 85 mm. is length and 5 mm. is diameter, whose, holdow, smooth, alightly stemanted upwards. Experie hack in mass, broadly elliptical, with prominent billiam and conspectous apreal germs pote, monthly 18 \times 7 μ . A simple fruit-bedy of this supervise cases on the governhouse at the Deminion Risat

Bennerh Laboratory in a pot containing a roviture of sol and howe manure. The agrees germanian wist, on home-dung again. When transferred to strelle howe dung, pure caltainer coverse, it with a deene growth of white mycolum, but after two constituted had not produced fruit-bottom. When this pure-caltices against man about two weeks. The fruit-bottom wine and put at this layer of mild, fruit-bottom aggreered in about two weeks. The fruit-bottom wine nogly at a little distance from one another. Polycosposium vergion does not have claim conserpant.

This forgue may be dissequabled from species such as C lapspace, P movements and and the C aphitons, which also have frogenee part, by its erram colored indust, and by the fact that the down on the number of the parties of the partie down not become separated into patches as the four-holdy regionals. It has not been colored not of down but, adopt by its leakance in culture da natural hadates in perhaph ren not rather than number piece. See Figs. 40-44 (Commission Figs. 2014). The commission for receiling the feet. In number 40000, horsen, Vertein Beach. Plant nature trained.

Companiona gracius pris. In marci woods, Arthur, victoria Diaco. Financia statovi stensiv pieces more er less unbionate, vinanceous in codor, aprovi 16-21 & 6 p., cylindrous loystida penents. Probably a form of G. wassing Fr. — maculatura Fr. Orcasional in conference arwas, Minaks. Victoria Batch. Pilens and stem.

reddish, spores up to 24 µ long.

— Trigricana Peck In conferous woods, Kences. The pileus becomes more or less black when dried at room temperature.

vinicolor Peck, apparently. In comferous woods, Kenora. Pileus small, reddish-brown, stem concolor not yellow at base, spores 18-22 × 6 μ, cyrtidia 95-120 × 15-18 μ.

Panasolus *companulatus Fr On dung and in woods, Univ It has not been possible to work out some of the Manitoban species of Panasolus with accuracy. The smaller forms referred to here, with spores 16-17 × 7.9 µ, may belong to P papilioneorus. See Buller (62, vo. 11).

restirugia Fr. Common on dung, in pastured woods, etc., I hav eastward. 14-17 × 9-11 µ
 — addidpsa Frei. Not uncommon in innure piles or on dung cultures in the laboratory,
 Univ The piless seldom succeds 6 cm. in width, stern long, soild, spores 16-20 × 10-12 µ

Penthyrella disseminata (Pers.) Fr. Rare in wusus, Univ. The usual abundant colonies of this small species were found on May 27 and June 21, 1921; it has not been seen since. It is common in many regions elsewhere. See Buder (82, vol. 111).
PHALLALES.

Dictrophore Reversalii (Berk & Curt.) Burt (Haphallus Resencies (B. & C.) E. Fisch.)

Common on old newdust and the waste from saw mills, Cypress River, Kenons, Minaki.

Muttinus caninus (Hada) Fr [perhaps should be referred to M Someonic (Berk & Ourt.)

E. Facher). In red in a garden, Elkhorn, Man, also collected at Regins and Sashatoon,

Bask Not common.

HYMENOCASTRALES

Hymenogaster mutabilis (Bochser) Zelbr & Dodge. In a potato fick bende decidaous woods.

In. Dodge and Zelbr who determined than wood i (Ann. Massum Bot. Gard 21 657)

from only two other localities, Munich Germany and Sventium, New York. The odor was very strong when the fungus was collected.

Ritappagen rebusedes Till \\ \text{Total Ritappagen rebusedes}\) in sancity woods, near Beausepour, at Kenora and Vetoria Beach, det S. M. Zeller. The (ungus emerges parisally from the soil, it is ommonly about the color, shape, and framess of a small yelow potato tuber, but bear redidable areas on the surface. Supres fusions, so \(13 \times 4 \times

Secution agaricoides (Carm.) Holos. Not uncommon along roadudes, or on piles of grass sod, Gunis, Morder, Luzv, Man., Battleford and Piles Lake, Sask Illustrated and described by Boller (Sk, vol. II).

LYCOPERDALES

Astrassa hygrometricus (Pers.) Morgan (Genster Apgruestricus Pers.) Abundant on mad under Pinus Beskeines, etc., Kenora, Victoria Beach and elementes.

- Borista pila Brit & Curt. In fields and woods, Keneca, Univ. Victoria Beach. Speres spherical, c. 4 µ pilurobes Fore In pastures or grassy woods, Berens Raver to Univ. and eastward. Spores
- oval, with long pediccie.

 Calvatia caeleta (Bull.) Morg. In woods, Clear Laze, Gomb, Univ. The sterile base nome-
- times becomes very large, that of Cherr Lake specimens reached a foot in length; and 3.4 suches a tackness.

 Teransiformia (Schw.) Fr. Sent in from 8t. Bonslace. Only the sterile base was present,
 - remainterints (Serve) FF Sent in from St. Bossiace. User the elemit base was present, it may be C caclein.

 eyathiformals (Rose) Morgan. In gravelly grassiand, Brandon, it is probably this species.
- that is common on the prairies of Sask: It may form large "farry-rings." The interior of the plant is purple.

 The interior of the plant is purple.

 The interior of the plant is purple.

 Occasional in grassland or gardens.
- massirms (Schaff : Morgan (C gapoules (Pera.) Lloyd) Orcasional in grassland or gardens, Gunli, Univ., W.-ninpag. Spocurious accustimes exach 13 feet in diameter; one apeciana weighted 16 lb, when colloided.
- --- saccata (Vul.,) Morg. In woods and grassland, Gimli Man., det. W. C. Cozer, also found in Saste.
- Discloseda subterranea (Peck) Coher & Couth. On sandy sec. near Melita, C. W. Lowe. Plants with a sandy pad attached to the lower half, apores 5-7 µ, apherical, with a pedicel when 2 2 least examines the sand of the sand o
- Gesaker coronatus (Schaeff) Schrovi A small species found under Ables bolissers, etc., Cirar Luke, Kesura, Victoria Beach
- Genbriatus Fr. In frondess woods, Univ. floriformus Vitt. (G. delicatus Morgan). Sankatoon, Sank and Kenors, W. Out.
- Formatus (H.sfs.) Fr A specimen was found on a boslevard in Winnspeg. Species ε 4–5 μ, range); capillities 34–7 μ wide, walls roughened.
- poetinatus Pers. Fairly common under Abies batesreer, etc., Victoria Beach.
 rufescens Pers. In frombse and mused words, Clear Lake and Univ., Man., Pike Lake,
- secatus Fr. In frondose woods; Univ
 triples Junch. Party common in woods. Univ castward.
- Lycoperdon strepurpureum Vitt. Amongst more in bugs and woods, Clear Lake and West Hank Laze.
- Curtish Bork (or L. Wrigh's Bork & Curt). In pastures, Gmli, forming "Sarry-rings."
 schinatum Pers. In mixed woods, near Benussiour and at Ingolf
- echinatum Pers. In mixed woods, near Benusepour and at Ingolf
 generatum Batach. Common across Manutoba on loaf mold or decayed mood.
- marginature Vitt In sandy must woods, east of Benumper and at Victoria Beach.
 Musecorum Mergan (L. Pripirichum Lloyd) Nat uncommon amanget moss, eastern Man
- polymorphum, Vitt. U. repréves Bull.). The common species on "bary-ringe" in laves pastures, golf courses, etc., Novway House to Uray.
 poyet fears bye. Commen on nid deteilutes wood, stumps, étc., in Man Marsansatzius, oscisus, Ouron 1 Deve. Coordinate, automoti, erans, etc., Ulay. Man., Baska.
- psycenasticus coverns (Lores) Lower Cocasional amongo graes, etc., Umary, Main, casastation Sack Sperimens sent to "ron Seen River were abstract, or possibly a variety, according to Dr Oober

 Tylestorms abbicans White. Amongst grave, Univ., det. C. G. Lloyd.
 - campetre Mergan. Common or sendy soil in southwestern Manitobs, at Saskatoes and Sutherland, Sask. rutum Hoyd. Amongst grass, Univ., dot. C. G. Lloyd.
 - Author anyo. Admings grant, Only, det C. O. L.
- NIDULARIALES
 Crucibulum vulgare Tul. On old wood, Kenora.
- Crathus atercoreus (Schw) de Toni Not uncommon on old tow dung, Univ; Sept.-Nov strictus (Huds) Fors. Common on old wood, Univ. controlled in Man., at Seakstone, Seak.,
 - apperently from old stirest atom versiousus (Ball') D.C. Common on soil in grain fields and elsewhere in Man, and Sask. Benn apcomens, especially from Saskatchowan, are more hispot than the descriptions

SCIERODERMATALES.

Statementalists stellatus Tody. On wood or un duty of your, rabbit, etc. Revus Revus to they and suctourd. Decembed and electrated by Policy (82, vols, 5 and VI)

PUNCT IMPEREZATE

MORGLIALES (HYPHOMYCETES)

Automomicolla atra flace - Lindated From Hardrum rulgare from Meeden by B. Petorson - Datasmusted by 1. W. Marrot, who has made a smould study of this fungus (16). Other spacing proumbling Accessosiotts were found in soil.

Assestalmentar affine Perceive tax various Jenory. Impact there times from a resolutional and many Windowski

- ainmahartmus f ords. Organisally found is ourface reals, and rather common as a accordary organism on rotted putate tubers, old bean posts, etc. in Man. in old etcm of Dabby and Bioto of Trice and destroys Pankatores Hank This fungue is largest relatedant and in culture

Manager 2 5 (0) to 12 2 at Memories to be a stage of 5 from normals Actinomorous arabasa. These i frequence. Neals of todays: of before an aberrary or resigned in that of the nish of Man and flush more the inspents of their have an adiabate reaction, and the mair organism is a had we of more at trust of these sich. Potata scale has breek

pollocied at Norway Bours. Man, at M. N. near the morthern hand of cotate production. Alternaria l'Ameranthi Perè, Herè De beave et temperathes retraferes Lambure.

- Brandon field they smeet blok the server of Normal Real or Man arrange man algors to the variety Fietra Early Purple Top Mount opprison in 1984 to Property obvious war detrate man W mesons on delds which had grown a rapidly or his according to an armonical an rabbage. Perhaps 4 Resource rarely in 6 survivious words such as Resource of resource and Thissus arrense, Davy. Soores large, 45-165 × 14-50 a

Citri Pierce. On fruits of reange reported into Winnipag!

Pitterethe Merceto & Hall 1 to / Newstran herbotan 1 are Aponno months 40 30 x to 17 p. - Massaculata Couty & Fit I feater and Cried. The dead areas on braves of Bibre segren-Indian Head Shak. Although the source are so decided, the nature is incertain.

Sedami Fill & Martin Joseph and Library | Laboliton and exhibits an outcome on travel of Antonion Patername to Man and at Indian Hand Prince Aftert and Sankaton Suck. Do mine at a metabar sperim carrier racels on other Helicoprop artishing I proper to ten conference. Salmonto

molecularum. Narrotuma sp. and / Spenius instruction on Man. I more taken retraffer no sk probate. Bride also is affected by an Adermana probago 1. Salesa rather than 4. Emericada as because Name arrows New Americans as and Marrow whent 20 days 10 17 or State of other species of Alternatia found as suprophytes to sud and on dead parts of phasts over not

Arthrelistres susuella Lucia. On honordisse rulture from Artica Beach. The trained purpose with me to right or more wheels of 2-reded spores 24 25 x 13 x h.s.

- memorina yan adinasanara (France) Common. This pariety in both may be only a loss expression form of the preceding, as removes as doing nations. User. This fangus was observed by A. H. H. Huller to form seyrobal hoops which many and kill larvay presented not

by Souf (Die Piler, 1800, p. 17) Apparently flavour Plan & fact | Then and Church The source a common in or near the

mediate of the well of a heat fields or grandened. It has now been scalated from butter and from graphoguere Dr. Markarek has obtained it from the rents of Triverse dorse. A striking fungus to refture with a Toront of long restable breats. Hence strains at least develop vanorously at 37° C.

Chross Look group. Oresponses to and and butter. One tred for this species is the production. of hope poid in cultures.

Summittee France Statler common on or near the metars of sed reservable and From described wheat marks the more may mark bester. All endown near found to store results at 20" (The fungue tear hall chirbens the death of ready 400 young thethe sens Wannapag as a broader house bitered with the company of ours, couldings as reported by Havage and Jon (LET) A furnamental way resultly proletted from the lumps of the charlests and from the ennifera.



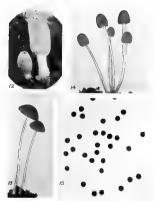
Pies 1.7 From 3-6, Coprison aphiliarus Fr. 14, instrud etc. Nages of standaptional are sharen. From 1, 3 and 5 from said fruit-bookes. From 3 and 4 from save cultures. Providence of the 10 F. Hanney. Providence of the 10 From 1 from





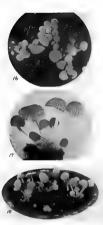
Fig. 5.1. F. M. Cograms configures table, interest net. Beyonnes fruit-bales grows in preceditive by B. F. Hanna. Fine D. and D. Cograms explorers Br. natural size. From pure charge grown by B. P. Hanna. Inc. B. (1), Cograms logopus Pr., from pure college matural size grows not phologopuse By W. F. Hanna.





F vs. 12., n. 2., 12. to genus ingopine Fe. from pure realier: —XII green and photographed by W. F. Henner. —Etres 13 and 14. Coprime imagine Britier about material rise from pure entirers by B. F. Henner. —Etr. Coprimer words heart Arm green X600. —Photograph by B. F. Henner.





Figs. 16-18. Coprinus persupersa Buller from pure cultives by W. P. Hanno. Figs. 16. and 17. \times 5. Fig. 18 \times 1,









Prox 22 27 First, 28-25 Caprinus photosparus Rarel Ftc 23, fress a pur subtert of modellini X.E. Ftc 23 dry spaces X600 Ftc 25, appear in soler X.600 Ftcs 26 and 27, Coprisus photother Ft Wild First-booker, natural size. Philosoppula by W.F. Hawno.





Flor 38-5. In 28-t aprener radians. Deem , Fr. area frail-body visional axe. Figs. 29-31, wild frail-bodies of Cogernus continuous Feet, showing bodis and development (see also Fins. 32-34). Marcael axe.





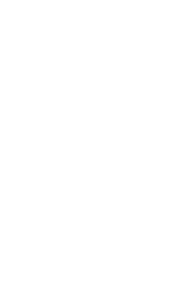
Fins. 32-34. Coprines neurinaries Peck sharing habit and development user also Fins 20-31. Natural size: Fin. 34 from a pure culture sibres unid fruit bothes. Photographs by W. P. Hanne.

















to the state of th



Fig. 48. — , a Prix Pignia Zon i Avart arbira, Mon. The Gradia is assauched relies, the name grains of many is now three with strongs of stroke or law term. Photograph by No. 18 Spatient R.C. & P. Brangage.







49



Proc. 47-43. 3. 47. Look in gracius a large plough near Assachem. Suit. Scirgus soludius altered to have neutrin reseals of the recipients of Proc. 18. Noticept colling. Park country near Dana, Sask A small lake us in the center background.

Proc. 40. 4 when field soci SS Groper Suit. The land was element of a growth of trees and whether look that in the background. It is such areas Ordinales graciness that the background.



- Aspergition glauseus Link, group. Common as a moid on slightly damp plant parts, as in herbarium driers, in Man, and Statk. Also obtained from everal roots by Dr. Machanell.
- See Eurottum Arriamerum.
 intesetus (Hanner) Thore & Church. Isolated from the roots of sernals by J. E. Machacek.
 addulant. Futant Witte. Barriy found in sed and butter. Asci are oredused.
- addulana Fridam) Wint. Barriy found in sod and butter. Asca are produced silger van Teigh. Occasionally appears on cultures in the laboratory or in decaying fruit. This furges, in control in more southern tools, in rare to the solls of Manitola (76, 76). It
 - is used to test the phosphorus content of sods.

 Obnankis Okanak. Indated twice from sod in Man, and from kernels of wheat in Sask.

 resums (Corda) Sace. Indated from damp tobacco: probably common in Manitoba.
- repeats (Corta) made. Inductor com tamp consect, presently common to maintenant.

 Sydnew: Bain. & Bart.) Thom & Church. One solution from sell, and one from Sour in Man.

 nervesis Thom. Two isolations from butter. It was not obtained in sell isolations, although.
- probably present.

 Matter Part, Thom & Church Sex isolations from soil, one from butter
- Matter Parn., Thom & Church Sex isolations from soil, one from butter
 --- wersignfor (Vuill.) Tirab. Isolated once from the soil.
- weakconset V(uin, 1) rinc. isolated some room ten som. Begrind, and september of the proving his page dependence there is no september of the proving his page of the proving his page of the pag
- A P Morgan, is perhaps the same Beauveria Bassians (Islas Vuill On Aphesisa funciorius and other insects, Univ. Spores spheres, 2.21 s. Probably common there collections identified by M Timmin. No
- particular search has been made in Mini for entomogenous fungs.

 densas Link) Vaill. One collection on a spoler at henora. Mr. Timonin successed has
 been increased under the function was collected.
- ubtaining cultures a year after the fungus was collected.

 Betryotischum atmogrissuum van Feynun. Two seolatons from mil. Spores 11-22 µ is, danseter A similar or destinal lungus was found on an old weep's nest, apores 12-18 µ.
- surrounded by sterile har-like byphae

 phulliferum "sec & March. Two mattions from a garden seal. The sporm are sonowhat

 scales (b) 4 at that no the recording species and the colonies in culture are paler.
- Betryik Alli Munn. Sourcitimes is, must be considered and to consider in culture are passe for the consideration of the consideration of the consideration of the consideration of the produces selection and Futryis fractifications, but the name has not been verified. elasses Pers. Occasionally solitory from and and butter, probably not a. Irus and fungua,"
 - bu ubiquateus on dying or dead plant parts. Forms of this species have been found weakly parasitio or Arjanique officensile, Petergensile remain. Lecture native. Perense officensile, Lilium sp. on fruite of Fraginia sp. Corphia americana, and Rubra idensile season and the Man.
 - to man.

 Sec 4 Wint. On bark of Populus, Univ. The fungue agreen fairly well with a specimen so determined by J. B. Ellis. Sporce about h µ m diameter. The species of Botevits no old wood, etc., are difficult to determined.
 - elliptica (Perk) Cooke In, uranua to 1/2 am sp. cult, Dropmore 12-15 × 10-12 μ.

 genticulata Corda, probably the consider stage of Hypoxylon sp. On old wood, Univ.
- 7.10 × 3-4 µ.

 Passenies Ouden. Often sqursous on Passens affectuals in Man. and at Saskatoon and Wolseley, Sask.
- phymatetricha Sacc. or near. On an old board, Pinz. Spores pale vallow, 5-7 × 4-5 µ.
 Tpflullfera Sacc. Recorded with considerable doubt on dung culture; Un.v.
- tarrestris Jessen. Three seastions from soil. 3-4 × 2)-3 µ.

 Yulipes (L/b) J Lind. Developed on Tutps Generates shapped to Winnipag from Toronto.
- nos yet found on takes grown in Manitobs.

 valgaria Fr (probably only a form of B ciseres) Injuring the tips of Helmathur summes.
- Univ. Caphalosportum acreemantum Corda. Rather monaco in sul, isolated also from higher. Produces a pink to misson-colored, rather skiny growth in existing, with sporm 3-6 × 1-4 µ. A forecase acreements that market was forecast on all Mixenvenesses. Univ.

- Cophahapperturn curtipes Saos. or zear. In soil in Man., in wheat roots at Indian Head, Sask.

 4-9 × 3-4 µ.

 Summode Outers. Occasional in soil. Cultures somewhat pairs than those of C. scre
 form.
- Isumicola Öudem. Occanonal in soil. Culture isomewhat pair than those of C acreisensistic spaces roundish, 3-4 × 2-3 µ.
 Caronametrical Lamoulas Dearmon & Buby 171 1220. On Lauvula orbinate, type collected at
- Birds Hill, found also at Univ. Spores 20-90 \times 4 μ . Correspons althousas Sacc. Common in summer and autumn on Althous rains. Univ. 40-90
- ×4-6 μ.

 antipus Ell & Holw On Loncorre pieuconnus and L. Notiventus, Norway House. Berens
 Biere and Birds Hill. 25-40 × 31-41 κ.
- Apai Free, Reported on Apair paraveless from Morden (Can Plant Duesne Survey Report for 1634) but apsemens have not been seen by the writers
- athorese Tharp. On Perion quentpulpin Time, Branden. Spress 40-60 × 4-6p, considerable short. I Amplepario has no over spore and longer renderbores IC Chappe. in Bit.). Tharp wrote the name "hibritae" but since it is derived from above: (Chappeness CL. Chappeness).
 All the delta New Sections of the Chappeness (C. L. Chappeness).
- avisularie Wmt Control on Polygonum oricidors and P stretum, Univ and across southern Manutobs. 40-100 × 4-5 µ.
- beticals face. Occasional or guiden bert. Brin vulgaris, but not found to be jugarious, Univ., Restee, Silton. 60-90 × 4-6 μ.
- Blazzonswianu Pierc & Berl. On Lepatium Druho a word which has recently become ustabladed in Manitoha, Brandon and Kuenda. Dr. Rolbeits thinks it is this species, or perhaps
- the var. Drubne B. Com. Bpores 55-76 × 4-5 μ, 2- to 4-supitate

 Calline Pick & G. W. Clinton. One cellection on Calls pundrius, Neurons. 55-60 × 8-10 μ.

 Castein Deursnes & Bessel (Processories 4 eners). Deursness & Hessel Nace. On Cares so.
- Univ. Cercosporu Cerarus Oudern, was described earlier, Dr. Chupp is uncertain whether the latter is olfstored from C. Cerasia Decarron & House.
 ulawata. Germid. Peck. On Audipton aprison, Ye.v. 28-75 × 4-6 µ. Bee. Phyliosteris.
- cornuls. Cornundras EH. & Dearross. On Cornundra pulleds, Grand Brach. 45–36 \times 2–24 μ
- Davidi El. & Ev Oceanoval on Mellatus allo, Brandon Valley Raver 24-190 × 3-6 μ.
- - minute blade practice are visible under a hard free, amphysnosis, the strendad consist monthly of only a few dark bown cells, facestor, usually not dress, consisting often of 1-de condispolaries, engalepieres pale obrascouphires to med un-bown, the longer consisbeing the darks, mostly alost, non-perlate, not generalistic, subsensible of without appear, some, nonewhat attenuate toward the april, 5.25 × 3.5s, consuming up to 7.5s, long; mostly, mostly alost, consistent or consistent of the second consistent of the second consistent of the mostly harden co-behavior, or nonemer critical and when about, retrained or establish neverther.
 - seastis by size, obstavate, or cometimes cylindrical when abort, straight or nightly curred, base sharply conseal to distinctly truncate, apex usually blust, septs, necessivenus, 30-80 × 8-34 u.
 - 8-43. On leaves of Halemet defices, Screen R.ver, Massicha August 1, 1935, G. R. Binby 4921.
 Crossorie arnisancele Ell & Fer has colored conids. C Gentineer Peth has colored.
- very narrow couldss, C Subbolus EE & Ev and C Fraserus EE & Ev have condophorus pairr than those of C Habrino.

 — Hearchers EII. & Martin. On Hearchers Richardsons, Branden. Mature spores 65-60 ×
- Meschere Ell. & Martin. On Heachere Bichardsons, Brandon. Mature spores 65-40: 2-4 μ.
 Lathyri Dearmer & Bosse. On Lathyrus renews; Minaks. 30-51 × 4 μ.
- Melverum Seco. On Make volumb/olse, Birds Hill. 60-100 × 4-5 μ.
- mandtobana J. J. Davis (Tranz. Brit. Myc. Soc. 8.96, 1982.) Type collected at Gilbert Philis, Max. on Risespasa argentae, collected advacquently at Kilkarevy and bours, Max. and at Indian Read and Dalf. Bask. Spore of Hool 100s, mostly 5.7 μ w/cls. Recemble C. You (Lev.) Since in having long consciophorus in correnum-like fasceles, but the color of the condetapolenes as different, and the counties are when to C. You. (C. Chape in litt.)

Concessors Manhanermi Kill & Holy On Manuscremon constance. Univ. Recognited 40-40. × 5-6μ Overholtz (Myc.logia, 26 502) finds them 18-52 × 4-6μ in Pentsylvania. wagnaira Ell & Holy On Amalacarra manager, Day Species parrow, linear, 60-85 × 34-4 µ, stromets large, dark

- Opuli (Fpekel) v Höhn On Vebureum Opulas, Gilbert Plane, Man , on V poucuferum Lake Waskenia, Stak. 35-50 × 24-4 u. See C. rerus.

- Ournarrhagas Ell. & Ev. On Opportrhiza Interfacility. Univ. 40-90 × 4 at. - pussalareodes Wint. On 4 morphy consecute, Birds Hill. Spores clavate, usually 1-septate, 48-52 × 6-8 a. Not a typica, Cercopera, may possibly be physical with Cladesporture

Amorphise Thijm - Rhamma Fuckol. On Rhammus alasfelia Beulah 62 100 × 5 6 µ. Resembles C nerv. general Cooks, expent in lack for the green color of the constant of coniderationer

Prhains Cooke & FR On Phas Torrestendran, Thursday H.M. Not mut on and therefore doubtful

- resicula Pass. Very common and often invurious on wild resea, especially when cultivated in hedges; Man and Sask rubino Cooke & Hark. On Savann solicifolm. Berens River, Minnki. 47-75 × 3-44 u. Dr.

Someon writes that this energie should nechans be excluded from Corcognora-Sagittarius Fil & Kellerm On Sagillarus Intyloha, Victoria Beach, Winn peg 50-180 ×

- salisina Ell & Ev. On Siles and Clear Laire. 18-40 × 3 5 p. - annualidada Pock On Clemetas honotocibitus, Univ., Indian Hond, Snak, 35-88 × 4-5 a.

- subsanguines Ell. & Ev. On Mutaubetroin constant. Berens River, Univ. 22-56 × 3-5 μ. Not a typical Coroospoon.

- Symphoricarps Ell. & Ev. On Symphonotryos sendmiclu, Lniv and Carberry, Man. Chambertain, Sask 24-44 × 5-6 µ

- Thermoneidie Karie On Thermoneur rhowledship, Chamberlant, Sees, dot L. L. Connerez non at Swift Current Stank Apparently the first records for Canada.

- umbrata E. & Holy On Ridges fronders Virtura Breach Probably this species but not a good fruit. Spores 55-100 % ft ac. warts Peck On Vitterque puberent 1 nov Man , on k praceforure, Close Lake, Man, Indian Head Sack 28-88 × 4-5 u. This may be the same as C Onell.

Violan-tricolaria liriou & Cavara. On Vicos (moder (cult Panas) Univ. Pertaga identical with C. Vaolor Sacc.

mehrina Paus. Common and squartumes opprious on Trijohum hybridum in Man and Sauk ; on T renew in Man. 50 130 × 3.5 a. - Ziniaa Fi & Ev. On Zirin cordora, Birds Hell. 32-118 × 4-6 µ.

Corcoapprella Apocyni (FL & hellerm) Teel. On Apocynum queroapprellohum and 4 sthereouse. Heavy to Berems River and Daumbin. 35-60 × 4-6 u.

a care Sace. On Autor conditions: Berens Saver, on Salabara considerary, I my 20-100 X 4-5 g

Gat Dearmen & Buby (71-124). On Grass striction, Brandon, Killarney, Oakville and Univ. Santa annu, montry hypombylicon, argress 28, 70 × 2, 3 u. Colindranorium Oct Fael. (n.r.) agrees so closely that it seems to be the same species.

Neeline Dramess & Bushy (71, 125). Type collected at Furwarren, rather common and sometimes insurrous to the weed Nesha sersculate in western Manitoba, found by Dr. Henry to be occurred also in Alberta, an immature specimen, apparently this speciment Indian Read, Sask. 30-80 x 21-4 u.

- Pastinaces Karst, On Pastinace solies escaped from cultivation, Brandon, 40-60 × 2-4 s. Cladeanerium Teadurum J. J. Davis. A doubtful merimen on fictule ofte var. paperulers. Unov. 14-18 × 8 µ.

carpophilum Thim. Reported on Propos en, cult. Morden. Boscimens not seen by the writers, but to be expected as plantations of plums much so those at Morden.

- curumerinum Ell & Arth. Often injurious to Cucanus saluna in greenbouses, Winnipeg - Tepienyces Cooke A Cladesperium, perhaps only C herbaraes, as not uncommon on old Pleurotus, Russula, etc., m Man.

- Cladosperium fulvum Cooke. "Leaf-mold" la often segutiona to Lycoperacum saculentum in greenhouser: Winnipeg.
- gregationer Cords. The Claderporium contanon on old stetus of orreals and grasses is included, in this species with uncertainty.

 Everywhere on plant parts or remains, in noi, butter as a laboratery of the program of
- tory recomment cir., in Man. and Saak. Certain other species of Cladosperium lighthere are possibly forms of this variable species.

 Passeniase Pass. Occasionally found on spala or leaves of Passonias Glicinals: Univ. 10-25 ×
- 8-8 μ

 Tetercorarium Cords. On rabbit dung, Univ Spores somewhat rough, one- or two-celled.
- monthy 18-21 × 7-0 µ subsessible Ell & Barthol On Popular balacemforu and P fromalantes, leav to Norway House, common constances on P fromulantes in Back 13-22 × 3-6 µ. Ladotzirshum nodvanostum Cords. One collection on and wood. Lury A crust of dark
- hyphae bears apores 15-18 × 10-11 µ, with avidances of the bopoming of perithesia (probably Chaelospharas fissor Feekel)

 Chaelospharas fissor Feekel)

 Chaelospharas fissor Feekel)
- Prints Recogi Stateton State, of Prints up, Pelly, Reak

 Conforthedium betallature, Cords. On twops of Betala Victoria Beach, Lake of the Woods.

 Black toucheds are from the two, bearing suggestation of scores, the "disvalad cells of
- which are 4-6 µ in districtor

 Teffusium Conta. On old wood, Univ. Spores in clamps, each one-, two-, three- or four
 - celled.

 Covernium cinerea-album (Bount) Sacc. Or rathit dung in a damp chamber, Univ.

 State countriess, bearing a gazy green head, the whole about 1 mm, high. Scores 3-5 ×
- 1§-2 μ, horne π elsama on dichototously branched sporophores.
 topprophilum Berk & Cart On dung, Univ Fruit hodies § mm tall, white; head ovac, hearing spaces 9-10 × 4-5 μ, in elsams.
- Pglauceum Link var filmitoola March. On dung of field-misc, t are Spores 4-5 × 3-4 µ, hysilins.

 Cylindrium aerusinassum (Links Lindau, Very commen, at least along the Red River, in
- autumn on fallen netwer of Quercus vaccroscopi. This species was not found recorded on one in Baymour (15). It fits the descentation is Balcohiout Keypt. Flore. The spores are mostly 16-24 × 2.3 p. cylindrical straight. The rules on the sources are vellow green. Polyscyclaim farmen Bannatae (Mycotogis, 6. 33) natroit or very different.
- elegistrum juanes sizimicae (одгоснори, о до заковоти те very onneres.
 elegistrum Bonard. Rather common in October and November on failan leaves of deciduous trees of the same meason, tuffs whitish micros somewhat shorter than in C. ocrupinosum. Policicalism servicins. Same may be the some thous.
- Cylindresurpon candidarm (Link) Wollens: Oceanonal in soil determined with some doubt by C. D. Sharbakoff. Culture white with cream-swored masses of scores 42:58 × 5-64 a.
- enadddarn var mapus Wolsen. Twenty-seven solations from soil. Cilitures somewhat starker thus in the preceding, spores 50-64 × 5-6 µ.
- didymum (Hartung) Wollenw Net uncommon in cultivated soils. Spores mostly oneseptate, 20:28 × 34-45 m.
 Thetererenum (Brit, & Brockel) Wollenw System solutions from soil. Spores 15-20 ×
- 3-4 μ, one- or two-oxided.

 radiction's Wolfeys (C regressives). Apparently contrion in soil. 20-40 χ 5-7 μ.
- Cylindrocella Urticae (Pets) Bound, stage of Collins fluorodes, q.s. Found once at Selkirk in early June on stema of Laparine considerate of the preceding year. Spaces mostly 10-14 X
- Dectyllarer dendroiden (Bull.) Fr., stage of Hypomyres resollus, q.v. On Canthurclius, Lensites and Polyporus terentorus :: eastern Massitoba, scolated once from forest soil. Cultures alaks to the complete of the control
- and Programs terminary : eastern Massitos, societed once from lottes see Cultures pink to purplish, spores 20-40 × 9-12.

 Dissocrum Paccalese Fill & Barthol. On Paccales superpipile, Resention. A dark molei-like growth as produced on the larves, with spores 18-30 (40) × 9-10 µ, mostly con-explaint, sometimes with two or even three sports, paid circlescous inhight roughneed.

Didymarks didyma (Vager) Scheort - On Anemeur remaîtrate, Morten, Black Island in Lake Winneyeg - Bjores 10-281 × 0-10 µ, two-celled, hysine - One collection had also many successories about 2 × 1 µ - Seymout (16) gives the authors as G'ager? Pound. Epicoccurs nigravas Lark. Organiza

spiny 20-25 p

margarana ma Ehrenb. In roots of Triticum sestimum, Indian Head, Sask

Ensuperture Thine Link Atundant on dead branches of Pilve assertents along the Red River. Species up to 90 × 15 s Funname values Pre. Customes on damo reasons on honey-deer on leaves of various plants in

Passanger regions Prys. Common in damp sresons on honey-dew on heaves of various plants in Man.

Passantum' arthresperioldes Shirb. Isolated once from discolored basel parts of Arms.

Financiare* arthrespecialdes Sherb Indated on some in Man , over from a peach from Ontario

— avenueseurs: [F7] Nere: In seel on twogs of Toka mercenna and Edaggue, a basel parter of Metrosps setter Velisires sibt and Caragona, from retted bugie of Dables, from against of Arms astone, very contensity associated with basel parts of Tritecon motivum, T durant Arms astern, Headren resport, and become cereate in Man., from Medicage astern, Bodon Rand, Basile.

- avenuousm var velutuum Wollene Inclated once from basel parts of Tribrum continue from Pipestone, Man.

from Pipestone, Man.

www.accours forts 1 Wolleaw
From stalk of See Mage; Sankatoon, Sank , 1933 (det. Wolleaweber; as F secution).

halfidgenum (ockr & Marcer Isolated from butter, occasionally soluted from dissolated band parts of Trusium acrisium, Arme occus and Hordran subject in Man , caused severa

sejury to bulbs of dasfodil anyorted into Saak

— builbiguouser var. Lyeoparasiei (Brush): Wollenw. A Functions with al Lymperature occupation or occupants on occupants.
 — builbiguouser var. Lyeoparasiei (Brush): Wollenw. A Function with other definities determined. However, the ventry Lyroperasis has been molated occupantaly from band parts of Fribrain neurosis.
 Areno octiffe, and Herslann reduces at Man.

 eneralisare (Lib.) Nor: A commer name of rot in lighers of Satanum (phraneum in storage, moduled rare from sect in Man., from wheat roots, Sashatoon. Sash.

 menghatinama Wodene var Califortophi Beach Destructive to Califortophia channess, except that the public may eventer during their first vest to new tool. This will, together with aster velows, has almost ended the cultivation of asters in Man. The aster variotion resultant to with have not treat electric time intension in Marchinam in One of the contraction.

— eulenarum W. G. Fruth, Sarv. Occasional in real-field heads of Tritrium aerinum is Man, and Bank. this species and the vasirity crimin are frequently interested with foot rots of Triticium species. In the parties are seen and Hardon endorse, in head partie of Himman surems, in hand belight of Brase maxima and in soil in which evenals have been grown, in Man, not yet.

melated from virgin scal. See Germany and Machaerik (190, 191, 223) and Santocoda (41) cultiporture var centals it code? Western: Protage even more constoon and superiors in Main: than the preceding from which it is not easily differentiated, in analysis Triticum

morrowr, Saskatoon, Sask., 1925 (det. Wolfenweber) dinnerum France. Three infatuers from butter in Man., and a few from end

- Equaneti (Corda) Face Oreasunally subtred from soil, of very common occurrence in

basad parts of Triurum uruturum. Isrus astem Hersteins majater. Neede cerude, also in Bromus increase is "mulbled" brade of Triticum in Fratta of curums attrius and Lypopersonem carelectum in histori parts of Indexpos attention. Phasedus uniques and Meiaotian ay increas southern Manriolm, from roots of Triticum, Indian Head, Mails.

sp nerose scatners Manitoles, from roots of Iritation, Indian Head, Shak.
— Equatest trac hullature (therts) Wollenw In erows of Trateaus, Believek, Sank, 1925 (det. Wollenweiper).

Igransinearans itchwake. Not found by Dr. Gordon m extremes solutions from crimin, but apparently its profest stage Gelderella Saudenets (q.e.) has been included on old stalling of Zee Mays at Leav, so this Fassium may occur but if so, rarely and not as an important matherers.

 $^{\bullet}$ Dr. W. L. Gordon, of the Denomina Root Research Laboratory. Winnings, has briefly supplied that non-prolonents survey from his received a packet and hoots of the difficult group Finishment. (this ship p: 442).

- Fasandroum Tatherithuus Nom. Idevilied previously from trigs of Praxima principlemen and tow Neponde in Man. Stat when inclusions were made from other here Vings P symmetrichandre was obtained. P interview must therefore be enumered very dendridly grounds. Lind Holley Otten mismous in felds of faster anotheriorum in Man and Stat. Remitted.
- warsetson of flax are now grown by many farmers.

 merispondidae Corch. Recorded by Heary (as F Boine, Mann. Tech. Buil 22 LS, 1934)

 from Brandon cell, a few cultures from son lates to 1850.
 - mondificarms disciden. Not uncreases in soil and in butter in Man, unlated once from Printeres against affected with foot rot.
- orthocorna Appel & Wellern In rusts of Trainium molecum, Indiam Head, Rock orthocorna var henging (Short) Wolfern Frog. cross of Trainium materiam, Wolseley, Sack, 1925 (det Wolfern-Work), and at Womange, Man.
- segugaterum Nehlecht. The commonest Fusicious in Manitoba seil, including vogen soil, soluted skin from discontered based parts of Traterias searcies, T derive Aerie setter, Hardense religiere and Newton cereate in Map., From West roots, Indust Head, Nask.
- supuparson form I Wollenov (n w.lt of Nolenove fubressess: Common but not arress in Manitoba
- expension var aumantiacum (Link) Wolfens Unconneal in sed, recementy soluted from therefored hand parts of Princum austrium, Arens seives, and Hardene religier in Man, and from wheat roots in Said.
 Pose (Verk) Windrew: In sed, serlading virgin sod, in hose, parts of Brienius increase and
- ndem of 'www.ne.nvwu and Menaton sp., rather notation in "mah" of Trivina nections and in hersde with park districtions, in 'death by Universitions' in Man. From roots of freme nature Markston, Nacl. 1982, det H. W. Watersweiger Markston, Nacl. 1982, and in distriction have trained from notations and in distriction.
 - and Hordram religion in Manreticulatums var ?Negurelinio (Shorh.) Wallow Phaspreted of bring prevent in the
- continues red stain of most of Arer Vepundo in Main, but not yet unlated associated varieties. Occasional is not just one from tranch of Acer Nepundo, manufactorium format (Wolfren E. Abstract californium) in main in Main. Probably also a
 - cause of not of tubers of Solonum fahronom, although it is now known that P. Fischethrousdes is the constitute cause. For Baby (65) for sonation in cultures of this species.
 - Selept Lands. & Fastr. Rather common in seal, occasionally isolated from Testeries during and Herefores injust in Man. Selept via neuroinatum (DS & Ev.) Wolfrew. Common in not, superchily surface soil of
- eultrysted fields on Squitzers intylote, in heanches of Aver Nagando, old stalk of Zon Maga and basal parts of Mealetan sp., oceanomally from basal parts of occasio in Man., from notes of Virtuesma, Eddin Head, Issait.
- Beirpi var Bilduraen (Freum) Wollenw Indated twoc from Truscum nontonum affected with four rut, perhaps only an associated species, also in decayed fruit of Lecoperative evidencium.
- in Man.

 Sulmai (Mariam p.p.) Appel & Wolleau | Identified by W. L. Gordon from covan rot' of Country New Man and Habitano Bade Alexa bear and a Manufacture reference.
- Gigene suar, Mehistus offin. Tribram netarum indi Herdeun volune in Man, from wheat etim (art. Wolfenvebre) and wheat roots, Smitations, Smit Smitation and Martin (Appel di Wolfenve V) Wolfenw. Londord from basis parts of Latheres.
- estivatus and Trairum mestrum in Man. Probably this variety (or its form 2 Swyder) in root rot of Passe actions.

 specifically defects. Occasional in son, in two of Aeer Negundo, where it is possibly
- parasitic subject from "sogs" of Tribrium outsteam, and from dead branches of Populas in Man, in roots of wheat, Indoas Head, Sailt.

 Man, in roots of wheat, Indoas Head, Sailt.

 **Indoas Head of the Commission of Sailt in the Indoas Head, Sailt.

 **Indoas Head of Sailt in the Indoas Head, Sailt.

 **Indoas Head of Sailt in the Indoas Head, Sailt.

 **Indoas Head of Sailt in the Indoas Head, Sailt.

 **Indoas Head of Sailt in the Indoas Head, Sailt in the Indoas Head of Sailt in the Indoas Head Indoas Head of Sailt in the Indoas Head of Sailt in the Indoas He
- sterage in Man.

 **nainfectures Alk. In cultivated tool, especially as grave sed and fields of Mashonus astron

 in Man.
- washinfeetum var futujutum (Phurh.) Wolfone Common in surface soil, represely in gardens in Mon.

- Fuserfurn vasinfecture was measuren (Sherb.) Wollenw. One molaton from the and of a wheat field in Man.

 Fuseledediture descriptions (Waltr.) Fuseled, stage of Fenturia manouslas. Common but melann
- Fusicidadium dandriticum (Wallr.) Fuchel, stage of Fentoria sampaniae. Common but seldom, injurious on Fyrus descrits and Pyrus app, across southern Max. and as Indian Head, Sagh. Relatively few analysis are grown securing for angle such has not been necessary. The
- Venturia stage has not been found depression of Stum nonliqueium, Univ Brown 36-44 × 4-8 µ. Transferred to Socie-orichum by Bubak The following appear to be synonysus,
- fol: Dentron. Cercapions designed Ell. & Ev., Delymanus ninguirpures Ell. & Dentro, and Helincitishoporium processing flock & Cunt. radiousm (Lib.: Lindr: (Versichtimus Trenslas (Paralle) Succ.) stage of Versions Trenslas, Common on Passalus Seriannesses telementatus Mantolas and in the "Park bell" of Res.
- Common on Proposius Irremainers throughout Mantiches and in the "Tank beh" of Basis. The young shoots are kind and Maskennd, so that the disease resembles flew-blight on supple; goots are also found on full grown Iranya. Spores 20–30 × 5–8 µ. Geomyteus vulgaria Transa. Severa is soldstreas from not, neoceasily of mendow-outure, in Man.:
- Geotrichum sandidum linix. Rardy ardatel from soil in Man. The hyphae break up into spores 5-12 \times 3-4 μ , cylindrical with obtase ends.
- Gliechelture etrans Girian & Albott. Two isolators from sell in Mail. Spores about 3 × 2 µ: the Linguis 6th Gliecheldian weeps that it is dark enough to be sought in the Demantiscense. — estemulature Girian & Albott. Isolated from grant sod in Man. Colosose white then
- green, aporen 5-8 × 24-3 µ.

 Transcropodinsem March. On thing of blue grown from Romer. Consideophores branched, aporen 6-14 × 4-6 µ, in beads.
- spores re-14 × 4-6 µ, in heads.

 porticillasides Curiss. In soil. Mergre into @ researce colorect cream colorect.
- -- vessus: (Luk) Barner Connect in seil in Max., from roots of Trünesen santirum, Salgation, Sala. Culture militon-park, spores €7 × 21-4 µ, in dense "heada."
 Glosserularia Corni Preb. On leaves of Cornus consoleran, Beress River, Victoria Beach,
- Man, I ake Wastesiu, Bealt. Boyen spherical, about 10 µ, nº "glomerules.

 Lentoerne, (Pech) Dearmen & House. On heaves of Jensons considents, Birds 120, some
- what unjurious on a bedge of L. sateriou, Portage in Prairie. Sporre globous, very rough, 10-12 p. Prehaps a form of this fungus on L. sateriou, Univ., with smooth spores 7-10 × 5-7 µ.

 Craphtum stercorarium March. On horse dung, Univ. Dark Graphuzo stalks arise, and
- numerous species On Dones cong, univ. Dark Graphian stalks area, and numerous sports 5—10 X 3—9, are produced at the life.

 Headwortschum lineare Peck. On leaves of Phragmétes convisions, Cowan and Dauphie. Book daily agents 10-21 X 6s. consistent.
- repous carx apperes 15-24 × 6 μ, tou-tissuous.

 **Mapbegraphisum bleeder Grove In surface soils and on old decideous wood, Univ. Contidiophere brown, 5-6 μ wide, branching at apex as illustrated by Sunting in Masses (16).
- displace brown, 5-6 µ wide, branching at apex as illustrated by Bunting in Masses (10). Bec Scapularus Popula.

 hascipus Preput Race | laclated from forest and in Man. Like a Premilium, except that
- Un hyphae are brown.

 Marpseportum Anguillules Lohde. In nematodes, Univ. The nematodes on a culture of hore dung were attacked, and hundreds were killed. The hyphae develop is the animals, and concluphores protrude through the body wall and bear suckle-shaped constant (see 71: 127).
- Helicorna Berkobeyi Cart. On bark of Populas, Univ. Spores 4 μ wide, in a flat spiral coil. 20-28 μ wide.

 memilizes EU. & Johnson. On bark of fallen Populas, Univ., Sept., Irrue Mouses and
- O. R. Blady Efficient over the back, macroscopially respecting an Hypothesia. Dr. Mounce found it to be a Heliscoma, and sent at to Dr. Lander, who repixed that it was H mostified, and that this is the first collection reported since 1800 when the type was collected in Merhagin.
 - obtvacouses (Karst.) Linder On back of fallen Populas; Univ Tuffe brown, spores in code 10-18 a wide. Det. Linder (Ann. Mo. Bot. Gard. 18: 11, 1981).

#Idlicoms allipticum (Poh) Morg. On a decayed heard, Univ. Spores forming spright colls. 26–32 × 14 m. Determination verified by Linder (Am. Mo. Bot. Gard. 18. 11, 1931).

Solitor year (1946) Determination vertical by Libert (not 1956, Libra 1841, 1948).
Solitor year grantitis Morgan On bark of dead Populus, Dow Tuttis green, spores 65-80 × 1-4 yr, coiled into a lax flat spiral.
Solitor into a lax flat spiral.
Solitor into a lax flat spiral.

Suck , of Avens false, Rouless, Suck , in crown of Avens series , Brandon, Man — Breast Diedzicke, stage of Pyrenephers Hrens, q v On Iraven of Browns increas, throughout

 Brough Declarks, stage of Pyrosophers Brown, q v On Iraven of Browns increas, throughout Ban, and at Saskatoon, Sask. Brown spots appear on the leaves in early spring.
 — Yuaffarme Cooke. On decayed wood of Currens searcourpe, Univ. Spores 32: 38 × 8-10 µ.

— genteralectures Tracy & Earle Common in Manutobs in crowns and roots of Arena sation, Hunderer redgers: Secula cornels, Tribrane neutrons and T durant also from kernels of T answers, three solutions from prairie and. This species is perhaps better placed in Boodya a gassas Currolises.

grandinaures Rabenh. Fairly common on Hordrom religore in experimental pasts and on Larine in Man and Shah. Stripe disease has not been very common during recent dry years.

- Passarsearsear Grey. On beauthor of Owners inacrearyse Univ. Boorse clause, 80-120 A.

17 18 μ, about S-celled

Trinsheldforum Berk & Br Identified with doubt from soil.

-- materiage Paumerl King, & Bildke. Very contineed in evolves and rootal autoritation on linearing, bringly, or between its direct minint. Herstein subject, Science certain. Terisions institution and T dearns in Man, and Bank, on invest of Elgense considerant and Herstein policies in Man. Bilderess was dischoosed very considerant and Herstein policies in Man. Different analytics or a service of Elgense considerant and Herstein foot takes from Man. A beyington of a region instudies preserve reas, and servest times from and an a wheat field. Bee Genners and Machinoch, (190), 1922 this time roots, white Manhall (190), see See Herstein and Machinoch, (190), 1922 this time roots, white Manhall (190), see See Herstein and Manhall (190).

(20) there Shoo! Common on leaves of Herdram redgers in Man. and on the "Park helt' of Shah, holdsted from sod and from demand kernels and root of Tribram natures and from dimand roots of Herdram religions, in Man. Therefore, the Common of the Common

phere repose, q.v., Univ. Speces c. 70 × 10 µ.

— Letramova McKinney. Widespread but not abundant in crowns of Trinova according and

T durum m Man., one solution from soil.

— Barubeaum (6) (1) Ashby A species morphologically resembling H torsionum to found sands in roots of occasile (2) E. Mathacek).

 Tritish-represtis Dedicke On have of Eigens canadrass, Carmer, Man, on Trituran ansissus, America, Sask, with Pyresophere Triticireposts stage present, det J E Macharette

-- up. On Nontrieve elepoto-type, Brandon. Associated with writing and shrivelling of bandlawes. Spores obelavate about 8-celled, 70-80 × 10-12 µ. This is one of several species,

apparently undereribed, now being studied by Dr. Machacek.

Hotoenaparitans: TAvenase Ouders: On leaves of Hordson religions, I my. Spaces rough
18–28 × 91 its, becoming 2-celled, rarely 3-celled. Although associated with false-outrips'
of barley, than fragues is revidently not the ensure of the disease. Mr. B. Peturson has made
many modulations from affected leaves without intinations this financiage on an other connectionally.

and the trouble appears to be "physiological."
- echiculatum (Birk.) Cooks On Duanthus sp., Saskatoon Sask

— greades (Wide) Suce, stage of Diagnostica Iristic, gr. Otten in groups an order-stad Iristic amount Man and ribath. An examination of the leng species at the Monetic Rep Botton in Bopt, 1927 aboved the Indion size 'species' infected. I fluorism, I forestina, I publish distinuism, I provide, I subsection. The Indioxing visit for fee from stateston. I servation, I contain, I provide, I subsection. The Indioxing visit from Indioxina, I restricted. I servation. I contain, I forestina, I publish, I fluorism, I forestina, I forestina

measulature Klotmeh On dead leaves of Typhs let/1644, Lavv, Mar. Spores elightly rough, I to 4-celled, up to 28 × 9 µ long (see Overholts, Mycologia, 21 274)

Phiet C T Gregory On Phieum practice, I say, Man. and Indian Head, Sask. Small spots are produced on the leaves of tomothy, and a few schizulate sporus were found.

- Hurmsheetle Talbus Presses. On bank of Popular, Unav., July. White tufts are produced an the bank, the consists are borne in channe, 3-celled, hyaline, 14-18 × 6-8 µ. Bur of spocus reas not stated by Presses.
- Minrealization artification (Conta) Succ. On twigs of Francius pennsylvanion, Univ. The twigs are currend with a situation of blackash myrel-um and spores, the spores are made up of cells 8 × 6-8, authorize, in indefaults chains.
- Hormondandrum virido (Freezi) Bace Occasional in soil. Other species of Hormodendrum are also present in acid.
 Hydiapan stee Corda. One stolation from soil in Man. was determined by E. W. Manon to
- belong to this "group."

 Nechranasas Cords. On old bark of Populou Univ Small golden tuits with considerphores

 45-60 × 15 s, non-neptate, bearing at the aper protocols about 15 × 5 s, wheth may remain

 attached to the more, more mobiles occurs, non-nextate 40.50 × 30-53 s. Material rather
- Meanty Meanum Transuum Dichreb.) Martus On the Lohen Pritsprus canne, Gamis Salmon-pink dense sputs of the fungus bear rough globulus appear S.S.s. wede
- Lemonovasora aquiation de Wild. In the water in a small shough, Univ., Oct. 20, 1983, det (W. Lowe. The spices were free in the water they are stelliste, as illustrated by de Wilds
 - man. Box Tetracladium Louwouluchium sp. On devayed dendusum wond, I arv. Sporodochia, whele, 75–100 μ , wide, considephores face-value: 20–25 × 1 μ , conside basillar, r 3 × $\frac{1}{2}\mu$.
- consimpliore facerolate. 20-35 × 1 µ, consist bardler, c 3 × 4 µ.

 Mistrauperlum Supterariae Prck. On leaves of Superaria Vecents, Univ. Sports 50-70 × 14-16 µ. This is probably an Alternatia.
- 16-16 p. The se probably an Alternaria Monobutyre stemples Colmon & Abbott. Rarv in seal in Man. The fungus is no described and illustrated (Lowa Hate College J. See . 319, 1927) except that the whorls are more
- regular and the branches which served 30 µ n length. The spores are 34–54 × 3–34 µ, the Metarwhitative pt. Twent-ength melanino from onl of a wheat field, in notice of Twinson materies in Man, and Raal. In relative the spectrum is when at first, later bearing dark olive acress areas of spores. Considerative elemanted and element seminative, across field X.
- sing green areas of speces. Consolophores clongated and stender presculate, apoems 6-8 × 25-3 µ. Not in Thors, "The Peneralas."

 Milerestreems Jugfandia (Bering) force On Seaven of Jugians maps, Morden. In "The
- Fungs of Manistrine removes are given for placing this fungue in the Montalades. The host does not withstand the Manistrian clinate.

 Montalia Armsharchiaris Ready On Frust of Ameionchus sharlate in Man and probably in
- Alberta and black. Spores 14-16 × 10-15 µ, re-loose chanse. This fungus was described (Am. Myr. 6.114; on 4. considerate in New York with spores 14-28 × 10-14 µ. Hensy (Am. J. Botan 23.100) reports apothesia.
- -- marrow Garciu: On deceived wood, t'leur Lake: Bijectimen in Doursem berharium mily -- femèricale Cout & Matt. I runcous in a hold of Prollières insuperiers at Fort William, Ont., reported by an cluvers art genwer near I rur. Man, who had some difficulty getting rid of st "Planter model" describes the appearance will.
- geosphilds Budern Tedated From recite of Teturum nearuson, Icoloan Hend, Bindt Fungus in culture golden vellow, spores in closure 3.4 x 2 µ. A longus appearang admitted in appearance who redated from each in Man Dut the scores were 6. 10 x 4.4 d.
- Semplicata Criman & Abbott. Isolated from seed in Man, from roots of Trivirum sections.

 Indian Head, Sank

 attandall, blood, these Consistent on a laboratory "wood" name in sail and butter in Man.
- Early reveguerd by its rapid growth and milmon spores. The Neuroppers stage has not been observed.

 Memorkowsora Dafane Muson 10 39, Macanese nears Jensey. see 76, 78). Tharty three
- mediation from soil of graw land or whost fields in Man, but not found in other wale, from revitor of Transpars sortiums Found Head, Shath Demorbed and ultratefacted by Mance (10)——
 hamaginess st.-offson & Mould. Mance (10) 201. From wheat torrole in no overs, dashatoom, andaled by P. M'Rommondia et al. b. Mance. He Rommondia et al. be naturated with To El Homonosia et al. b. Mance. He Rommondia et al. be naturated with To El Homonosia et al. be naturated with To El Homonosia et al. he naturated with the second sound of the second sound sound of the second sound sound

grees, and placing it on agar held at 50° C., Unry., Mon.

Mycodorma mo. Very common is milk and butter

Myongune cervirus Ditto. On some mushroom in the woods, Univ., Man., on Profitete pumpegirir, Baskatoon, Bask echracea Bouder On Helvella, Univ A brown growth on the distorted bost bears spores.

with a brownish rough upper cell 15-18 µ wide, and a small hyaline lower cell. Myricconum comitatum J J Davis, probably a microcondial stage of Scientium bifrons,

g.s. On leaves of Populus tremulouses infected with S. byfrons, Lake Winnings at 51° BOY N Secres 9-3 at roundarh

Manufeladium arundinaceum (Corda) Sace On Jeaves of Photomics communications Daumhin, Man , and at Emma Lake and Prince Albert, Sask. Blackish spots are present

on the leaves, spores 3-celled, pale brown, 40-48 \times 12-15 μ Migrospora ophasoica (Sace) Mason. Sometimes apparently injurious to mate of Zea Maye

us field or storage, I nev Mr M I Timonin made a special study of thus fungus in 1922. which may be summarised as follows: it is to be found on overwintered stems of Brossus stermin in critical betide and emerially inside the status of the Bermin affected by a stars. magget, in stems of Tribrum orstrum killed by wheat stem magget, or head of Agreeyers deserven, on seaves of Lycopersicum eaculentum affected with snaects. It would appear that the fungue may be introduced by the mast roude gram stems. The spores are aphenoal, 14-20 a, dark brown the anustated think they are small spores. Mason (20-51) examined Manitohan sperumens which make somewhat doubtful the distinction between this appears and N. Oruzos (Banaparum oniisrum Moll.)

Ouducouhalure Theticala Ouden. On old paper in a damp chamber; Luiv. Condiculors Bu wide, sentate, covered at anex to a glober 30 a wide; spores burne on steriamenta on thus globs, 6-6 × 8-4 µ, hyaline, somewhat rough

glornerulesum (Bull.) Sace On old stem of Helionibus annuus, and (with Humerine testings) on decaying roots of Medicase solves, Univ. Constitutions speci, septate, about 10 a wide, aver a globe 20-40 a wide, apprec 16-20 × 9-12 a Thysilinum (Benord.) Sacr. On old develuous wood, Univ. Spores globest, r. 4 st. slightly

reach. Compare lactic (Freen) Sec. Abundant in dairy products. O. Sectio is perhaps a Cou-

trichum. Ophiocladium 7Hordei Cav On Phalaris sp., Itsdata Head Stalt., 1935, det 1. L. Connerg, specimen at Ottawn. Spores 12-15 \times 75-6 μ (Cavara gives 6-6 \times 4) μ), otherwise the

fungue seems to agree with O. Horden. Ovularia avicularia Peck, nombly the same as O Bistertes (Fuckel) flace. On Polysenum

erectum Law . Man . on Polygonum en . St. Cregor, Susk. Scota round or arregular. spores 10-18 × 6-74 s. - Carlateri Ell & Kellern. On Lacture michelle, may Virtee Man, and at Indian Hand.

Sank The leaves sook as if they bore a downy-milder in spots; spores 15-20 × 7-10 µ. dostructiva (Phill & Plowr) Massee On Myrice sair, Kenora and Musaki, Sept. Spots mondals, brown, mores 20-24 × 7-9 a.

Ounsigns auctowayers Link, a myorial phase of Copyrous demonstra. The "golden harr" as common in woods. See Buller (92, vol. III 38).

Pachybasium pyramidala (Bosont) Oudeto. Encrusting crowns of gram, Lury, this may be the fungua found on charred wood of Purus Bentmone, Vivian. Crust vellowah-brown. consdiophores with verticils of short branches bearing spores, spores 4-6 µ, globular, hyalane. Pacellemyres sursetingamements (Biourge) Thom. One solution from butter, det. C.

Thorn.

- Varieti Bainter (Prescillium discritetum Thosa) Common in butter rure in soci Promited aphagoneous (Pers) v. Hoby (Consequence dynamics Sect.). On old states of

Plengrestee communes, Delta, a few solutions from soil in Man., so bamboo stakes, Maskatoon, Stask Known by its lentscular according mostly 5-7 a stude when flat, brown with a bysline rive. See Mason (10: 16) Padilespera parasitans v. Höhn. On decayed deciduous wood, Univ. det. D. H. Linder

A fine fungus with sporas shaped like horse-shoes, shout 5-celled, 13-16 × 7-8 µ, hysline but pinkish in mass un the wood.

Peniciblium felbidum Scop. One solation from soil. All species of Penicillium included here were first determined by Thorn. His book "The Panicillia" gives descriptions (see also 78

and 78 for noise on Manitohan equations). -- stramentesum Thom. Rare in butter. - aurantiobrunneum Diereics. Rare is still and better.

- bruntlense Thom. Occasions, in seel. Chalky-white in culture, with a tinge of pink

- bravicompactum Durcky Occasional is butter

- caneacena Scop. In acci carminaviolaceum Diereks Common in soil. Beautiful shades of red and violet in Csopek's agar

- chrysogenum Thom. Very common a spil, especially cultivated still, and in butter 7citreogulfuretum Bourge Located from flour by M. Timonin.

?eveloplum Westlerg. Rare in butter

Dierchati Blourge In a forest soil

2Ductauxi Delner In soil of a wheat field. expansion Link emend. Them. Once from peat, presumably this species in rotting apples in Man, and Sook

Basidorsom Bourne Obtained deep in post.

fraquentana Wortl. Occasional in roll.

- funiculesum Thom Eleven matures from soil. - Truscum Sopp. In a forest soil.

- Gladioli McColloch & Thorn. Common and often inventors on corms of Gladiolos so, in storage, Wanapeg. Known by the abundant tan-colored selectia.

- grissoresseum Derekt. In sell, near P chrysogenum. - Textmesory Sonn. In hutter.

- guttulesum Abbott. Common in forest soils, especially in lower horizons.

- Herques Bauser & Sart. A species in recadew soils belongs to this "series." - implicatum Biourge. A variety of this species in butter - intricatum Thom. No less than 417 solutions from sec., superially surface soil, were placed

in this species after a couple of outures had been so determined by Thous. Not occumon in forest sails. Certainly this fumeriose type of Pamellium, with a grayteh brown growth at first without spaces, then becoming smoky-greenish as spores develop, is very common in the soil. Over and over again the same type of growth and celors would appear, but also there would be many forms "intersymbing" to P. Thorn or even P. southerellum. After examining more than 2,500 cultures of Funlcillium from the soil, one face that there is an alterest multiper myterior of fection in this group, Binty of them forms have been plantfied as "ADMINE."

- unthinellum Bicurgo. Almost 400 isolations from soil were placed in this species, known to be a soil-unhabiting species.

- Johannieli Zalcek: In butter

- Kennesinskii Zaloski In oni

- Isnosum Westing. In butter

- Blactnum Thorn. In mil, especially of meadow-practic, isolated from roots of Triscum oseficers at Sankatoon, Sank A counderable range of forms is included in this species. observatorized by a blas surface growth, reverse on Caspek's agar usually vellow. Spicaria piologen Abbott is a striking form with nounted Isaria-like columns.

luteurn Zukal. In a garden soil. Emmons (Mycologia, 27 141) used the secistion from Menstobe in his study of assessmen.

Martenesi Biourge An isolation from butter pierieans Barner in Thom. In a forest soil qualicum Currie & Thom. In butter

?pelitane Westling. Deep in pest. - purpurpurpum Stoll. Occasional to soil and butter.

- purpurreacens Scoo. In soil and butter. restrictum Gilman & Abbott. Rather common in soil: one laciation from butter, from wheat roots; Indian Read, Sask. Known by its restricted growth and dark surface.

- Requesorti Thom. Occanona, in butter: also introduced with Roquesort chases.

Ponicillium rugulosum Thom Common in soil, including peat, also in butter — regulosum var stricols (Bainer?) Thom. Bare in soil.

- regulation wer attreets (Baliner') Inom. Have in sec.
- sampulmeum Sopp. In butter.
- samplicasamum (Outem) Thom. In soil, especially surface borison of forest.

aplaulosum Thom. Not common in sell and butter.

- Toublateritium Biourge. From post at depth.

- tardum Thom. From a forest soil.

- Trertikowski Zalesk. Deep in peat

terrestre Jenser More than 300 solutions from soil, especially soil cropped with wheat, from roots of cereals, common as butter in Man. Rather variable, sootes of solutions had a beansa-like olor; others none.
 Theorit Zalock. Fairly common in forest soil and uses. Near P introduces.

- Thomas Marre Common in forest and, also in other ands; on glumes of Tritiques occurrent

in rests of cereals. Known by the dense masses of yellowish, pinkush or brownish selectua produced as subure warshable Stopp. Not common or soil.

Trerruceoum Direcky Isolated by M. I. Timenin from four — viridicature Westling. Not common in soil and butter

Piricularia grison (Cooke) Sace On leaves of Setura strudis and Holcus sudanensis; Neepawa

Potyecytalum seriocum Sec. On fallen leaves, Univ Spores 10-15 X S.m. Perhaps the same as Culindraus sice-potum

same as Cylindraus stongerium
Patrapara Limi Pethybridge On Linux unitories num, fluskatoon and Watson, Sask. Thus
funcus as reported sku on Alberta, but has not been collected in Man.

Polythrianum Trafolii Kunse, stage of Cymolethru (Debisolo) Trifolia. Common on leaves of Trifolium hybridum and Tripres artem Main, north to The Pas, and at Siahl Ramsularia Antanase Ell. & Helst. On leaves of Artena olde. A rober, and A rober was madecta.

Clear Lake, John and Norway House, Man., on Antaen sp., Lake Waakesiu, Stack. 20-30 × 4-0 μ.

4-0 μ.

Agrees with ro-type appearant Mullenberges, Univ. Agrees with ro-type appearance.

across rean, and at outside conjugate the first across sean, and at the conjugate the

Asteria (Phill & Plowr) Butsak On leaves of Aster Traces-engine, Clear Lake Condephores Issustation, sporce 18-36 x 4-5 µ.

Celastric II. & Martur. On leaves of Celastric sounders. Univ. 19-23 x 4 µ.

Celeatri El. & Marun On leaves of Crimiros conserus, Univ 19-23 × 4 μ

- esrcosporeldes Ell. & Fv On leaves of Epsiobium angustifolium, Foxwarren, Norway

House and Visto. 18-30 × 4-3 μ

Those and years. 10-30 A 3-3 \(\text{incide} \) A 5-3 \(\text{incide

It appears to be different from R. Cartilleser Ell & Ev. Spots reddah-gray, uregular, condopolores amphigenous in dense tufts, spores 10-30 × 4-6 µ, mostly about 30 µ long and 2-celled.

— descipiens Ell & Ev. On learest of Rurez triapus and R. renseus, Dauphin, Oakville and

80 Hone 18-30 × 3-4 μ.
— Gai (Elassa) Landroth. On leaves of Gram informa, Brandon. Spots grayah brown with purple unitarist stores 20-30 × 2-3 μ.

 Heraclai (Ouden.) Sect. On leaves of Heracleum limitum, Dauphin, Lydiatt and Univ., Man., Indian Head, Sask. 23-33 × 4-5 μ.

— Impactant Freek On Inswere of Impactson Touforus, Betrins River Spores clustered moneytate. 18-22 x 4-5 µ.

 — Spores Line I J Davis. On leaves of Freek annoderurs, Dropmore, Man., Indian Head and

Lake Waskers, Sask , on V Natalia, Indian Head, Sask. Spores 21-38 \times 4-5 (6) μ , mostly 2-celled, sometimes 3 or even 4-celled

- Rarredteste Lappulae J J Davie. On leaves of Lappula defices, Treesbank, Univ. 14-22 × 4 µ. ... Lysimuchiae Thim. On leaves of Sestrosems citatus; Univ. Probably this species, but not in good fruits.
- not in good fruit.

 TMagnusiana (Sect.) Lindau. On leaves of Triestalle overzones (T. Foreslis), Berens
- Rever 26-28 × 4 µ.

 Remethicals Siece. On leaves of Hendus plotter, Victoria Beach. 14-38 × 2-3 µ.

 Pastinace (Kard.) Lucder & Ventergren. On Icaves of Pastisons asino, Winneyeg. 22-
- 22 × 3 y

 punctiformis (Schlecht.) v Höhn. On leaves of Epilobura adenceusien; Duck Munitain
- and Victoria Beach. Sparsa c. 30 × 8 µ. resea Fuebel. On serves of Salix sp., Univ. and Vlata, Man., Indian Head, Stak. 15-21 × 3-5 µ.
- Rudbackune Feck. On braves of Rudbackia larinisia, Beaussjour to Dauphin. 30-47 \times 3-5 μ .
- Pul'omequiane Peck Common on moves of Polygonum erecture and P. Multenbergis, Univ to Valley River. Spores 10-20 × 2-5 µ. Perhaps better placed as Septosphadrium referea-
- culene (Feck) Pound & Clements.

 ***sepsium Dramess & Birby (71 130) On leaves of Consoleulus espium, Minnki. Spots

 resudeth-angular, sporse yearly 15-23 × 3-4 s. A Septoria also is present.
- aubrufa Ell. & Holv. On traves of Sresian Arrhams, Univ. Spots reddish above, spores hypophyllous, 20-25 × 3-44 µ.
- Tanacete J Lind On loaves of Tanacetum sulpure, Univ Spota brownish, apoces large, 28-50 × 4-5 µ, control p 2-celled, rarely 4-celled
 Tanacete Marie Common on Secure on the support of the Common on Secure on the Secure of the Secure on Secure on the Secure of the Se
- Turanuel Karet. Common on Torasocion officensis in Man.

 —Tulasnes Saco stage of Mysespherella Proporter. Common and somewhat aquirious on collevated and nature species of Francis in Man. and Saak, including P. played in Saak.
- Speces 14-45 × 2-4 µ. Perfect stage not yet found.

 usrkring J 3 Davis. On leaves of Dierville Londors, lingelf. Spots umber roundish;
- sporce by pophlylicus, 3-16 × 2-3 g, 1- or 2-celled

 Urticas Con. On leaves of Layerton considerate and Urtica graciile; Dauphin, Un.v. Sporce
- 10-28 × 23-4 μ, controctivy 2-celled variate J J Davis. On tensor of Months overnote van considered, there. Spots small, becoming becoming names black, spores 28-40 × 3-34 μ. R. memblood as recorded on
- whitesh spots.

 variegata Kil & Holw On leaves of Palasties paintains, Victoria Beach. Spores 16-25 ×
- 3-4 µ, commonly 2-celled.

 Viburna Eu. & Ev. On leaves of Viburnara Opsius, Gilbert Plains. 23-36 × 21-3 µ.

 Virguages Thim. Deleves of Solidan observations and S. Marsida. Brown River, Univ.
- Winnings Beach, Spores commonly 29-30 x 3-4 p, but sometimes up to 100 p long. This furgas has been placed in Cercospora and Cercosporals, but Obupp (in bit) leaves to Barrularia. Perfacilient Barrularia.
- bears explain and advantages of the model and an application of the property of the period of the pe
- Noblemine Sumstate (Mycologia, 20-250) Growing over boards on the wall of an ice-house; Cure—It looks take Hypothinus or Conceptures, and it yallow-brown in color—It may be an imperfect stage of a Bandiomycete. Attempts by Dra. Mounce and Nobles to obtain collures were nonseconds.
- Rhimoctonus Crocorum (Pens.) DC. stage of Helicobassisus purpureum (Tul.) Pat. On tubers of Solvenum (sheroum, Prince Albert, Sask., coll. J. W. Marritt. Known also in Alberta. The perfect stage has not been seen.
- Solani Kühn stage of Ceristium Solaris, qu. Comman and often injurisus on tubers, riema and stories of Solarism shortenium throughout Man. and Back, in sell in Man, and in or on diseased roots of many plants including Brassico alersons via expitate, B. Negobrassica, Debt. Debt. Debt. Debt. 2015.

Torumcum officinate, also on roots of cervals. R. Solove was found by Vanterpool (53) to be the main cause of early damping-off of flax in Stale. Protoplasmic streaming discussed by Boller (12, vol. V).

Biolity (RK, vol. V).

Rhospatkon-yoor relegant Cordin. On herbaceous stems and an old wanys next, I are Reminishes Oedocephalams, but the spores are dark. A brown considerabove name aboud I mm. hagh, 35 mm wide, words not seen, it would not the control of a globe? So, wide covered

electromote bearing sporce 55–60 \times 22–24 s, brown, pulse may the time but dark brown at the halam. These sporte have the length of R regions but the width of R noncomposition Rhynologogorium Alisanstia (Caulem) J J Davis. On leaves of Alexen-Plantoge-equation

and Supitoria Intelleta, Bonda Hills, Bonnevana and Luiv. Spores 14-20 x 3-4g, hysthere, benified.

—Bounda (Oudem.) J. J. Davis. On leaves of Horizone judetion Hearthmann, Stack of H.

vulgers, Indian Head, Stathaton and Neoti, Nash, of Phalorus arandonova, Indian Head, Shah. Davna Chane Was Acad No. 20 420, 1922) shortanes the and the preceding spacess. Selected Lamb Milrons Fil. & h.v. On leaves of Populus bilancopies and P. Irenuicales, Variona Beach and Boll Head. Lahr. Winnings: Furt found on 1931 it almost certains does not

sower in the extensive popular groves sear the University
essegmentures. To do stage of a Typhola. On faller leaves of Populus, etc., I inv. The dark
reddam sedevota are compact, furturalize and are to be seen on the damp leaves after the

more goes in April

— Mandahasam J J Davry. Common on old stome of hurbs such as Abbara and Southus arrests
Univ. Annel to mark time. The vellors-oreaine selection are at fest embedded in the cortice.

this, agent to many June 2 for yearse-coming energets are at rost entercast in the cort's of the does dream.

Delphinist Webb Sometimes injurious to cultivated Delphinistin, fair and Winninger Challedul Manner, mage of Neteration Ginesis Drayton. On common of Okadoolus shapped into

Winaspeg, not found established as yet.

Minaspeg, not found established as yet.

Mehantenda Branchen. In tutta of Clades a Transpirerus, Vatoria Boneh, May golden-yetlow, names-sha of has continued and the consistency of chaese.

gotten-yellow, nonnerhat of the committency of cheese.

Thismoorane Pers. In most, castern Man, Rept. Helevots irregular, firm, golden yellow to omage, cellular within when viewed under the morroscope.

Bonhomitichuare Clavarianium (Drenn 1 Bare , stage of Helminkaphierin Chomisismu, qr. On Clavaria criside (Stage 1 Berlin 1 Bartin 1 Ba

grammens turbet. On severe of Apraguess reprine Hardeous judenum and Philium proteins across southern Man, on Apraguess increasin, Hardeous judenum and H. rudgers, Chamberhan, Kellaber Ramm, Scott and Sankatoon, Sank. The leaves turn brown: spores 32-64 × 8-12 µ, 2-colled, brown.

Semplated Faque (Instante at Heby (71 120). On both of dead Populor, I are A forementform of the Committee of the Committee

emiliage Moldy sweet slover (Mehastas afurnatia and M alba) has been held responsible for the death of access of cattle in Manitola. The presonance mode present is imadely 8. Intransable, but as Rows, Savage and Robinson (811 point out, this funges is reidently not the cause of the illness.

-- refulas Banter Isolated from a surface soll. Colonics coffee-brown, spores 5-7 × 5 μ, slightly rough.
 -- Remedicular share supersystem Fr. Common on Boletin son, presented on Assertances.

Sepationham chrysnogormsons Fr Common on Bolston upp occasional on Againnouse, Univ noeth and maintenal The fungua produces a galden growth on the hosts, smally after their have discharged their spores. The Sepationism spores are globular, rough, up to 22 µ m disancter S depassipersons is a stage of Hypomyca Arpograperson (Bolk). The which has not home selferted in Man, not did netwest globul derivings in an damy chamber

mérouses Mannos & Balmon. On rabbet pullets, L'nev Tufta whete, spores 14-28 s. spherical, summwhat rough, arising from shart stariguada on the hyphas.

Septocylindrium corcoenitans (Ell. & Rolw.) Halsted. On leaves of Sulms ormss, B. frontion and B. relgets, Riccle Hill, Brandon, Univ. Spores 20-27 × 4-8 µ, usually 2-celled, externulate.

Septemyza affinis (Sheeb.) Wellenw Fairly common in soil and butter. Cultures produce a gain salmes-eckered sinny growth, and abundant spores commonly 2-celled. This is the

fungue previously reported from Man. at Hymenala offices.

(Corda) Guiguen)
Schacella sewstum Lity, stage of Cioneces surgeres, e.e. Common on two etc.

opensous segeturn Lev. Hage of Cabecope purposes, q. Common on 199, etc.

Special placelation activations Hats. Restrict found on turburn of Scianows subcreases in Man.

Special place of Science Subcreases in the Special Cabecope of Science and Subcreases in Man.

Special place of Science Subcreases of Science of Scie

400 × 40 μ, with a head formed of sterigensta, and spures 5 8 × 3-5 μ. Speciodisarcium compositum Bork & Curt. On old torge of Unstangua and Francisus, Univ. Booty trufts observergation spaces winds are offers muniform.

Specetrichum parasiticum Peti. On Dibetryes notorius on Prurus, Univ The blackkest bears the white mold, from which arise abort conductores with apores 5-6 × 1]-2µ.

Stachybotrys cylindrospora Jensen. Contamosting cultures; Univ. Hyphas 8-4 µ wide,

considerable shout 50 µ long, somewhat rough near the spex, bearing asced brambles with dark smooth spores 8-12 × 4-0 µ.

— behalast lefts: Do not paper, straw, etc., Un.v. Sandar to the preceding except that the

spores are rough and $3\text{--}12 \times 6\text{--}7 \mu$. Stemphyllum macrosporoideum (Beck.) Saco. Rare in soil, det. Dr. Wiltshire. Other

species of Stemphylium are common, but defficult to determine.

Stillburn Tparvulum Conks & Ell. On debris in forest, Univ Stillbu pale yellow, short;

spores $\delta \times 1_{BH}$, in masses Steeptother's fuses Cords. On dead twigs of Corylon, Minaki. Tufts sooty nearly black, spores $\epsilon \le 8 \times 8$ is, hower Another Strenbethra, from Kenors, is discribed by Sametane.

(See p. 142)

Styannas Simenarius (Karst) Massec & Salmon. On house dung, Univ Stalk up to 1 mm hugh 12-15 m web. head simuler, about 4 mm, lung: spores to chains, 5-7 × 3-4 s.

 Trainformation Section of the continuous and again sulture, Univ. Head with projecting, flexuous hyphas, spores mostly 4 × 3 µ.

- Sterronites (Pors.) Cords. Occasional on decaying plants, especially on rotted tubers of Scientist tubercounts, Utive Tetrackedium Marchallenum de Wild. In water in a small slouth, with Lemonvorre squadion.

Utov Det C. W. Love, who has studied this organism in Quebes (Frans. Roy Soc. Canada 5 msr 21 11), 1927), and has democstrated that it is not an algo. Discussed by Karling (Mycologia, 27 478, 1935).

Thathiddium humicola Ouldern. Legisted from soil in Man.

Torula Albii (Hars) Sace. In soil, Univ., det. Wilhabire, in wheat roots, Indian Head, Sask.

— alresa Peck. On twose of Abras assoner, Vivian, on Thetung Borens River.

convolute Herx Occasional in gerden sed, Univ., det E. W Mason. Spores 4-6 × 4-6 μ, collecting μ, small heads.

Trichoctadium asperum Hars. In garden soil, Univ Spores 2-celled, the upper cell larger (see 10:59).

- Trichederma album Prezu. Fairly common in soil in Man. The cultures are white. The genus Trichederma seeds critical study. Some "strains" of T. albus, though remaining white on agar, become green on attribude layers and stems.
- glasseum Abbott Not common in soil. Cultures become yellowah or pale greeniah, agores e 4 × 3 μ.
 Kanstagt Ondern Very common in soil in Man and Said, also in butter. Cultures Seconds, green, rocers only.
- Ignorum (Todel Bara Common on dal wood, in soil and in butter in Man and Snak. Cultures grow very rapidly, producing a thin white growth which soon becomes green in tults where controlophers produce the abundant controls, contain noise or less plahenal.
- 24-4 s. A potential paramete of other rod fungs (76). See also Buier (82, vol. IV)
 Trichneaportum parameteurs Dearn & Buier (71 181). On leaves of Assolvantier alsofelia;
 Luv Bauta reducts then yetimoush, condespheres hypophyticus apores pale brows,
- continuous, $9-14 \times 4-6 \mu$ Trichethesium ressum Cords (Cephaicehecium ressum Cords). A very common zeold is Man, and Saak It is sometamen semparante, e_{g} on leaves of Trickess nashirem in the
- Man. and Seak. It is sometimes semiparasite, e.g. on leaves of Tritirism nonliness in the greenhouse and on fruits of Prussus up and Citralias misparis in the field. T reasum has been used by Greenry and Machacek, [39] to "antagoruse" root-rut fung in soil.
- sublutescens (Peth) Sace. On old wood, Univ Tufts pink, devae, inclaired, apores
 23-32 × 10-16 µ, hyaline, 2-oclided
 Trimmutatestrems armericanum Thim. Very common on dead twigs of Salix, occasional on
- Populus, Care to Valley Rever, Man., Siaskatons, Snak. Sporodechia socity-black, sporos herore under the microscope, composed of an indefinite number of cells held together loosely as channe.
- Trinscrium TMycogonia Tass. On old Salix, together with several other fungi, Victoria.

 Beach Sporre star-shaped with 3 arms cash 3-6-ceited and 15-30 × 4-6 s, Systime
 substill Rens. On deed stems of Completuies grayme, 1 nry, cell. M Tissonin Similar to
- the preceding, but the arms 35-40 µ long, 4-6-celled.

 Tubercularia vulgaria Tode, riage of Neerna rinastarias, g.v. Common on branches of Asser
 Neprosis, Caragona sp., Ribes app., Pyrus become and other plants in Man., on Pressus
 Brases, Ribes resiseer. Ulsus sp., etc., in Saak. Sporredochia, red or black, conside 5-9.9.
- 11-2 µ
 11-2 µ
 1-2 µ
 11-2 µ
- P vidéqu-sere agraparina on Antenone, of Uresques Falor on Virla, Covan and Univ. Boorndehin purple, spore 7-9 μ, globose.
 Covan Description of the Section of t
- from witted stems of potators have always yielded species of Famirium. If officentrum, or a species near it, was obtained rarely from soil.

 Telescentrum Bounce. Not conston, is wall in Mair. Colonies vellore-green, mores 3-7 ×
- 2-3 μ (76 205).

 Lactaril Peck On rile of Lactarius and Russula. Victoria Brach eastward. Often prevents
- discharge of spores by the mushroom. Condosphores verticalists, spores 14-26 × 10-12 st.

 multi-turn Pethyleridge. In surface sed as Man. Cultures soon dark from chiamystospores
 measuring 6-10 × 6-8, p., conda 6-8 × 2-3 st.
- terrestre (Link) Sec. In soil in Man. Cultures white, condiciphores verticellately branched; considin 3-5 × 9-3 μ
- Volutella Telliata (Alb & Schw) Fr On samuras of Fuxianas, etc., Univ Sporodochan sream-color, surrounded by cuia, spores 5-12 × 2 µ.
- elifata vaz stipitata (Lib.) Sace On hove dung; Univ Sporodochas stalked, spores 4-5 × 2½ ps.
 - remende Cooke. In a surface soit m Man. (TS 51). +

MELANCONIALES

Actimementa Resea (Lib.) Fr., stage of Diplocurpes Rests Wolf Common, and sometimes industries to subtracted roses, in Man and State

- Here. Man and I may Sank. The function appeared to be transition in flash, heter municipality. on the stems of a small patch which had been killed by the middle of August. - electronna (Berk.) Vort. Rare on both scales of Alloum Cross, Univ.
- Demattum (Fr.) Grove (Verwicklerse Fr., Common on old stems, including Carolforbias, Ormorrhup imputation, Smitscane scalete and Terenacum officensic, along the Red River in Man , on O lowerstate and Zune contain in Sask. Spores 17 24 × 3-4 s. (used, corved.,
 - continuous. On dandelson at Emerson the fungue appeared to be weakly parasitie. - Domatium var samaricola Sacc. On samarac of Francisca penneydraneo, Univ. Sporer as a the preceding, and there seems to be little reason for calling this a variety
- arusupana Saco. On prizzles of Rheum Rhaponicum, Morder, Portage la Prazie, Wassipeg. Apparently causes many to rhubarb, but the darage has not been studied entently. Spores 23-26 × 3-5 µ
- Funnisides (Ell. & Kelleren) O'Gara, retrieted to be a state of Gletorella cinculate. Appareently in Japons on stems of Anderson so., Univ. Books 18-35 × 5-6 a.
- gramunicala (Ces) G W W.leen (C cereale Manne) On Asrea setion, Granfell, Indian Head, Nashataon, and Summerherry, Sash , on Sectmannia Sympuchus and Pan praimpis; I now Man, probably this function on American tenerum, Rosthern, Stark, Boscon 23-25, W.
- 4-5 st. notes about 70 × 6 st. - Humalii Dearness (7) 132) On tiving seaves of Humalia Lupulus, Brandon (Margaret
- Newton and Univ. Type from hannes, also known in Maryland. Spots small, yellowish to become, accretal, 50, 110 at with few brown setas, spores 14-21 × 4-6 at
- -- Liliacourum (Westend) Perrar (I musculona Westend) On living leaves and stotus of Smiles Arrhoust | new (See Mass Dake, Frank Brit Myc Soc 13 172)
- Lindsmuthanum (Bacc. & Marn., Bross & Cav., Not common, but sometimes tourisms. to Pharolus reigers, Brandon and Winnipeg, Man , Indian Head, Rostbern, Sastatoon.
- and Scott, State f- phermeides (Succ.) Chester. On fruits of Lycoperature caralentum shapped to Winnipag
- from the Hahamas. Not found on native plants. -- Plat Pat. One collection on leaves and puda of Pirum seisrum, Brandon coll. I L. Conners;
- Aug. 4, 1923. Spots brown, spores 16-20 × 4 p. - Rudhuehlas Peris On old stems of Rusheckus Sectionia, Carman and Solkirk. Complements
- on the dead stems, speces $15-27 \times 4 \mu$. Corymourn Kurnael Cords. On twice of Courcus macrocorns, Univ. Spores brown, aspiales,
- 55-75 × 19-15 a. are mustical turn. Perk. On annual twice of Ourseau macronorms. Univ. Scores up to 90 a hours.
- perhaps only a form of the percedung Cryptosperium nubilesum Ell & Ev Os Carex sp. Univ Spores 18-34 × 11 g. Matered by mustake under Leptoutroma correspond in "The Fungs of Manctoba,"
- Cultudrosportuos America III. & Ev. On leaves of Appropriate connections, Elma, Man., of d normalization Whiteman Whiteman Sand Waveton Stady Scores in a maximum from Hady
- were 40-95 x 3 4 µ, the specimen from Man has somewhat narrower apores. - Artemialae Dearrom & Harthol. On leaves of Artemiss grapheletes, Daughlis and Roblin.
- Spots brown under the white haze of the host, spores 50-70 \times 3-4 μ - Clerentidia Lil. & Ev. On leaves of Cleverse (senses-clebs, Bethany, Man., soll, R. C.
- Russell, det. J J Davis. - erascantum Barthol. (Septoplorum croorwhom (Barthol.) Dearmon in Htt.). Sametimes
- abundant on seaves of Pastineou setims, Univ. and Winnipeg. Spores 59-70 X 8-6 p., ecomonly erecent-shaped, septate. Cast Farlow On leaves of Green structum, Clear Lake, and probably absorbers non Caron-
- eporolia Ges. -- Meracles El. & Ev On leaves of Heracleum tenerum, Lydiatt to Swan River, Man.; Mosting
- Lake, Sust Stores 40-70 × 3-4 s. Scatteria Heracies (Lib.) Dann. may be the mone - Manuale Hurrine, stage of Hassansia formalis (Hassine) Namefolds (Coccempose Monable Historian). Continon on leaves of Pressus nonneclements. Norway House southward and

A

across Man , and at Suskatoon, Sask. Consdis 40-86 × 3-4 u. A collection at Minals: Bears a Phyllosterta with spores 4 × 1 a. possibly a stage of C humale Cylindrosportum leptospormum Fock (Crossovu feelgaprong Peck) On seaves of Arabia madionalus Benusejour, Berens Raver and Clear Lake, Man., Cochus and Lake Washesto, Saak Dr Chupp considers that this species is properly placed in Cylindrosporium. The spats bear a whiteh mold-like hypophyllous growth, sparss 60-100 \times 2-3 μ

- Intescens Huggins, stage of Happiness Intescens (Higgins) Nanafeldt On Jeaves of Procuss eirgissons, Lydiatt, Norway House - Politicionala Ell. & For. Immatura en Sanonama officionalo: Mondan

- Phalaridle Sacc & Dearness On Phalaru grandvages, Indian Head, State.

- Prunophorus Huggins, stage of Higginesa Prunophorus (Huggins) Naunfeldt. On leaves of

Prunus americana or P stora; Morden. 60-55 × 4 st. - aslicifolias (Trel.) J. J. Davis, On leaves of Surgest eshelishs (S. latifolia), Berris River to Minak, and Neepasca. 20-60 × 2-4 a

- aibirieum Dearness & Buby (Mycologia, 20: 245) Type on leaves of Aperyana abiricum; Pierwon, Man., on A. scopulerure, Ozbow, Sask. Spores 22-45 × 3 µ, 1 to 3-septate.

- Sepilacia El & Ev Ou leaves of Smilecine stellate, Treeslank, Univ., det. Dr. Solheim. Spots recidish, numerous, spores 15-30 \times 2-3 μ .

- Thalletri (Kil & Ev.) J. J. Davis. On seaves of Thalletrum sp., Lydinti. 40-80 × 2-3 u. - Testcodendry (Ell. & Martin) Ell. & Ev. On leaves of Rhus Tarrophenton, common at Victoria Beach, Man., and found also in Bask. Spots gray in centre, margin dark, broad,

moores 40-80 × 2-4 µ See Mycologos, 8 105. Entonicaporium marulatum Lév. On Amelincher alnufale. Menta, Sask., on Tivrus en., Brandon Man and Boathern Saak

Classosportum Betulas-papyriferas Desmes & Overholts. On leaves of Brisis siles var papprifers, Kenora and Morden. Spots brownesh with the centre darker on the upper side

of the leaf; spores small - Chamaedaphria Dearnes. On leaves of Chamaedaphne coloculate. Kenora. Sputs brown. encere 15-18 × 7-8 u.

- confluence FE & Dearness. On Innees of Sopitaries interiors, Univ. Spots translucent, acervul, confluent, spores 8-12 × 3-4 µ - Corpli (Dress.) Sacc. On seaves of Carylus restrate, Law. Spots reddish-brown, spores

14-20 × 5-7 µ I- Muserum Cooke & Massey Common on old "peel" of Muse superstant to Winnamer markets.

Bourea 10:14 × 6:5 a.1 - Polygoni Deathers & House On leaves of Polygonum applitutum, Minaki, 4-8 × 2 a.

- Paoraless Peck On Isaves of Paoroles caculents, Camp Hughes, coll. W. L. Gordon. 17-22 × 4-6 m. - Rible (Lds.) Mont. & Deam., stage of Psychoprisis Rible. On leaves of Ribes current. Univ.

Man . of Ribes norwes, Saskatoon, and Ribes en. Indian Head, Sask. 12-20. < 6 a.

- Salicia Westend. On leaves of cultivated Sain, Montee. 14-18 × 5-8 μ. - spadiesum Dearness & Buby (7) 133). On leaves of Tryfolium protense, Borga Hill. Spots dark-brown, elements, usually naming myard from the other of the leaf often confluent. accrypt deep-erated, pushing up under the cut-rie, amphiercous, spores 3-8 × 1 Zu, consdictheres 23-30 × 4 g. Common at Birds Hill found in 1927, 1928, and especially in

1935 by I L Conners and G R. Buby, not found elsewhere G countrorson Kirch and O Trifolis Peck have much larger spores. - Personal linum Sacc On seave, of Acer sporetum, Victoria Beach, 4-8 × 12-3 u.

- sensatum Brest, stare of Electric (Plantachardia) reners. Barrey seen on Buleya planta war striance. Hartney and Sidory

- etc. On leaves of Faces election in houses or greenhouses in Man. Spores 12-16 × 4-6 ii. Libertalla acerina Westend. On bank of Ager Nessondo: Univ. Riporus c. 20 × Lu. contra out in amber tendrils. - betaling Dean. On branches of Bends ofte var popuration. Norway House and Victoria

Beach. Scores 12-15 × 1-2 v. forming residish masses on the white back. Marrasonina Aguillerine Descrime (T) 134 as Marasonia) On leaves of Aquilegia sp., Univ. Spores 10-17 × 4-5 µ, 2-colled. Mr. W. B. Grove states (personal communication) that he equalders this to be Actinosems Assallanos Grove.

- Marasserion Castagresi (Desm. & Most.) Mags. On leaves of Populae balancefore, Univ.; Mags. of P trenslasies, Indian Read, Saak. Spores 13–20 \times 4–7 μ , with a suptum magrate each
- see cmt. Martini (Succ & Ell.) Magn. Common on leaves of Quercus searceorps, Carberry, Mordan and Univ. Spots pale, spores 14-25 × 3 µ.
- Patanetillas (Fecm.) Magn., stage of Papicompon Revisions (Ell. & Ev.) Wolf. On leaves of Properse pistons. Dans. Salst, of P proverfore, Clean Lake, Man., of F up. (wild strawberry), Univ. Spores 90-98 × 5-6 µs, gattolists, 3-celled.

 Ramphil Dengree & District Africacions. 20 ≥ 23 ns. Maranetial. Common on leaves of Standaus.
- erweste, Gladatore Minaki, Un-v and Winnipeg. Spote brown with purplish border; spores 10-13 × 3-5 µ.
- spores 10-13 × 4-5 µ.

 -ap. Ch Salvi sp Broadview, Sask Spores 12-16 × 6-7 (µ, unequally 2-called. Near
 M Krieprisins Brea
- Medancentum cerasinum Frck, probably On branches of Pramus sp., Univ A Valsaria was accepted video and the Color of the
- Memochastia Krisperiana Brvi. On hving leaves of Kpiloleum ampunt/elium, Roblin, coll. I. 1, Cunners. Neures 21 25 × 4 µ, pale yelow, 4-celled with a seta at the end 8-10 µ long,
- and a similar pedicel.

 Mysassporture nitidium Berk & Curt On tengs of Cornus sicions/res, Univ
- Pontaliszania bierlan Dearrioni di Busty (71-134). On terigi of l'abarrium Opinhus (colh.) Univ. Spaces 20-27. A § 6.50. Seelled, pane brown and cella somewhat paler, agonal cell with temperatual streyent actue 10-20 ja kong. A sumitar or possibly udentiral fungus also on tenga of Quereus miscroorips.
- Insidens Zabrakir. On outer bark of Irving. Linux americans, Univ. Sporce 80-35 × 9 µ, 8-celeri divebrown, end cris paler, aprell relia rell injude with one rather long sets, the band cell with a sim-lar pedicel. Thus is a Monochectia.
 - cers with a neutral profiled. This is a finoncinates in a second of the companion on dead twings of Symphonic pass accordance in the passance of the control of the control
 - nce Fung. Dakorence 653. It is amoranted with Cryptospora har sensis ap. A Pensionary occasionally found in mid in Man, and is roots of Triticism in Bask, has not been identified. Spores 18-22 × 0.7 p., 4-cesled, brown with end cells pale, two or shreat
- terminal actan about as long as the spore.

 Section Apacpus Peck On Seaves of Apacpuson sibirium, Valley River Sporas
 28-54 v. 8-9 p.
 - 27-00 X 07-36.

 Thetentilize Allacher On leaves of Piscondis palvatrs; Norway House Books 38-64 X 6-8.p. 4-celled Those spores are nacher wide for this species as deembed.

 -thougheld-sterm Decursors & Budy (Mygoliga, 20 243). Continuo on leaves of Fepales.
- trensiestes, t. sav. Spores 40-60 × S ¹2 µ, common, y 3-celled, the middle cell 21-30 µ long. Steptinosportum Fautewit Sec. & Srd. On branches of Setule albe var. sensenters. Victoria
- Diagramosportum Fautwyl Rocc. & Syd. On branches of Setula albu war pappyfers, Victoria
 Beach. Spores brown, muricum, c. 48-69 × 20 p.
 Titanouppure detengure (Sec.) Bubah. (Scooppurum Squast Ell. & Ev.). On Emissionum
- system-ware, Oshvisir, Man, on Equintens sp. Macdownil, Spain. Sparces 33-50 X 3 ps.
 SPHAEROPSIDALES
 Agooshyra Compositarium J J Davis. On leaves of Habandus tuberous; Univ 10-18 X
- graeninteels Sace. On Agreymen Smiths, Hierochlos adonte and Olyenia (Panicularia)
 - grandu in Man, on H aderata, Rosthern and Yondin, Stat. Spores 15-20 × 2-4 a, sometimes (perhaps in different varieties of the (ungas) up to 30 or erec 40 µ long. - Inducents E.L. & EV On leaves of Kanturculus abertural, Brandon ... 13-17 × 4-5 µ.
 - Medicagnish Brus. On Molecule states, Lux., Man., Fort. Qu'Appello, Indian Band and Suskatoon, Sask. The spores in the Man. specumen were rather small, 10-16 x 4-8 µ. Some subnor refer this and A Melities to the pyraxical stage of Mysosphometic includes the Sizes outbook refer this and A Melities to the pyraxical stage of Mysosphometic includes the Sizes outbook.

4605-0

Assumedayta purmation Fosts: On Niving stems of Althone record 1 mer. $\Phi : 12 \times 3 - 4 \mu$.

— Plot 12b. On lowers of Forms subrems, Winnappy, Shan, Rostherts and Shakatono, Shalt.

Specimens of pms used sent on from Winnappy, Shan, Rostherts and Shakaton chamber.

 Rhed Ell & Ev. On leaves of Rhum Rhapestress, Lydiatt and Univ., Man., Indian Head and Salitatoon, Saak. 11 46 (20) × 2-5 m.

= secotioncula Sace & Roum. On leaves of Corez France Vivian. 10-14 \times 3 μ .

Thought bill & Er On seaves of Zuras Faures, Univ. Spores 23-26 × 6-7 µ, 3-celled, 6-gettisfair, with abdications of hecoming 4-order and therefore a Stagronospore.

FViolac Ltb. On leaven and pode of Vacas rallines, Unav. Hopores 12: 17 × 4.5 µ, probably a form of A. Plini.

a form of A Pisi.

Astarsens Gentianne Auct Amer On Gentiann Andreven, the Spores globour or broadly
displaces. Davis (Trans. Wie Acad Sci. 24 280) reports that Pistak reggests that this

Fungus should be called Asterosoffs Andrewes.

**Botzpapherus paputicela harti. On harti of Paputus trevulentes, Univ. Pycusias black, erumones through the hark sanality is clusters, ortal. storm 3.4 × 1 s.

Bronchilan Steppinchii (El. & Ev.) Petrak (Arliermeune Ell & Ev.) On steins and leaves of Siegrandson separt/obses, Brandon. Sporce 18-25 × 3 5 μ, pale brown. 3-celled, prolemed into an arm at one and.

Connerwspectum Amorphiae Succ. On twigs of Amorpha frations, I my Spores brums, 30-30 × 9-12 s. with 3 cross south and often one lossifications sentum.

 — Caraganase harst. On Coragona orherecens, Univ. Man. and Indian Hand, Saak. Sporus. 16–34 × 8 12 µ, with commonly 3 cross arpta, sometimes with one or rarely two longitudinal.

septs. Associated with Cuspebilaria Caragames.
—crustature [Fackel] Base. Us trugs of Linus americans, Linu. Pyenolis in the back, 150-170 g-wide, spores avail or globius. 6-9 x 5-8 µ, with septation commonly erusalorm.

possiting as 4 orth. Recorded previously on Lussia in Europe

— 10ms P. Ress. On dead water-sproats of Praziona penturbulancia, Lauv. Epures 14-20 X

8-8 μ. Further description in 71.136. The guardenie EU & hv Op branches of Acer Negwode, Univ. Squeec 10.18 × 7.10 μ, sectation variable, sometimes consistent.

sephanea variation, accordings coverages.

sephanea variation, accordings of yesphanearjan accordinate, Univ. Spores 13-18 × 6-7 p. Determined by Dr. Renealds, who described the spores from North Dahota (Myrobotics, 22 III) and has mound to a Fung Dahotenov, 603.

 — mp. On twope of Snamburus sp., Snakatovo, Phask - Pyrasdan separate, about 500 μ wide and 300 μ kigh, wall thick, apover 10-22 × 10-14 μ, brown, monthy with 3 cross septa and one-longitudinal septams. Detainet from C slicknessventes Brown.

Continuia Turgisia (Fr.) Desix. On benucloss of Corylor, L'nav. Spores 20.24 × 8 µ, larger than described. Chapstamestile atra Fuckel var. Signifesia Succ. On decortonated twood of FFratures, Wintuping.

Chambanwella atra Fuskri var Ilguskenin Smet. On decertanted wood of Třintona, Wantapeg, Premoté laker, hecomicin şeum at the top and cupulate, surveninded by biesides, spore-masse gray) spores 11-13 × 2s.

Cletmandshulge, Capattil de Bary. On Padarphares Organization on Prynas gop, Univ. and

Valley Rever, Man. and Sushatoso, Saok , on Microsphores, Usav. Spores 4-6 x 31-3 x (31-3 x X) in Sabenburg.

Condecharteum Fuckedd Soor , stage of Lepterphorie Constigueum. On Sulva ideas van

etriporus; Uzav. 29-4 × 2-3 µ.

-- Yellvacoums Bonord. On twigs of Fitts sulpine, Univ. 5-6 × 29-3§ µ.

Tellvaorusus Bonord. On twigs of Vitu sudpine, Univ. 5-6 × 2j-3j µ.
 parasitans (Berk. & Rav.) Tassi. On Hypoxylon, Univ. Blackish pyvaidin abundant, mores 8-10 × 4µ.

 — previoure (Rocc) Sheld. On leaves of Pyrus sp., Morden, Man. and Indian Bend, Sinkl. Byces 5-6 × 2-3 μ, mosky in color, at least in man.
 — Transactical Ouders. On treigs of Tanatrix, Unav. 5-7 × 3-4 μ.

Cryptasperiopale correlate (Petk) Petak & Syd On branches of Corresponding Statistics, Statistics,

Cytosporu conhisma Stor., stage of Vales multires, q.s.. On Culastrus scanding, Pyrus Sannia, Salts up., vst.; Univ., Man., on Prosess Senseyi and Rom. up., Saskatone, Sask. 6-10 × 14-2 g.

- Cytospera annulata El. & Ev. On twigs of Asw Negurio; Univ., Man. and Indian Head, Sath. 5-7 × 1-13 µ.

 - **Texpensa Fucks!** On twigs of Sahz, Univ
- **TCaprane Fuckel On twige of Salar, Univ
 chryscaperma Fr Common and apparently injurious on Populus treveslesdee and P. Adlande in Man and Salar on Salar sentender (S. Investidae). Stalestone Salar Sarran
- c. 4 × 1 p.

 Seucostoma Sace On diseased branches of Prunus sp., Morden, Man. and Saskatoon,
- Sask , on Amelanther elui/oles, Saskateon, Sask. See Vales leucoateus

 Symphuricarpe El. & Barth On twigs of Symphoricarpes occidentatie, Univ., Man.; det.
- Brenchle; Indian Head, Sask. 5–8 \times 2 μ Darluca filum (Brv.-Bern.) Cast. On sort of various Brodinales in Man. Spores hyaline,
- apiculate, 2-celled, 12-17 × 4-5 µ

 Disphospers Alapscuri (Fr.) Fr. On Hordeum ralpure, Carlyle, Sask: July 27, 1924, coll.

 P. M. Summonds. This is the only record for the grance provinces.
- Dinemasportum graminum Lév On old online of gram, Univ Pycnidia surrounded by solae, spores 12-16 × 2-3 µ, continuous, with a long citiest at each end.
- Robinian Gerard. Commet on old branches, etc. of Colosirus econdens, Frazinus pennajinusonus, Populus ep., Tilio americana and Cinus oversiono, Univ. and eastern Man. Spaces 6-38 2-30, cultate at the ends.
- Diplodia Amorphus (Walir.) Sacc. Common on branches of Amorphu fruticesu, Univ. Spores brown, 2-colled, 20-67 × 8-11 a
- * Tatrata (Donn.) Bace On branches of Acrr Negundo, Univ Bpcrus golden-brown, 26-28 X
- 10-11 µ.

 Huzauli Fuckel. On dead stems of Humulus Lupulus, Univ., May. Spores brown, c.
- 20 × 10 μ, 2-called melacena Lev On dead two of Ulmus americans, Univ. Man., May-June. 20-25 ×
- 9-10 µ. Possibly this species on wood of Ulmas sp., Saskatoon, Sask.

 ?Prami Fuckel. On branches of Prants ringuisting, Univ., April. Spores 29-24 × 10-13 µ.
- sarmenturum Fr On doud stems of Messipermum compleme, Univ , June 21-26 × 9-12 μ
- Zane (Schw.) L4v. Rare on Zea Mays, Uner., Man. and Saskatoon, Sask. Spores in the single Manitobs collection 24-90 × 8 μ.
- Diplodina Elisti Sace Not arcentmon on dead stems of Chemportum album, Univ. Sparsa. 16-22 > 7.9 pp., bytams to to yellowish. 2-celled. A form or species on old Azyria amorum-sholds has scorm 11-16 × 5-8 n.
- e 78ahicia Westend On brancius of Salux, Univ 16-22 (2b) × 8-4 µ.

 Discosus artocreas (Tode) Fr Not uncommon on old leaves of Geurs structum, Populus, Quercus
 - marrocorpo, Rubas Inforus, and asmarae of Frazinus pennaghanics. Berens River, Univ., Mnn., or oversintered fraves of Ross sp., Saskatson, Sask. The gyenylas are compressions, the scores recemble those of Monoshutta, and are 14-18 × 24-3. A -celled with a "ellium".
- bethelving Symphoricarpt Rebm. On twigs of Symphoricarpus, Univ.; det. Brenchle. Spores 15-20 × 3-4 μ, hyaline.
- Halnesia burealls Fl. & Ev. Reported by Conners (Can. Plant Disease Burvey Report for 1834 1931 on Online bereal from Dana, Sask.
 Haplesported distrypoldes Ell. & Barth. On old deciduous wood, Univ., det. E. A. Burt
- as apparently the species.

 Symphoricarps Peck, or a variety. On twigs of Symphoricarps occidentalis; Univ., det.
- Branckie Spoten .5-24 × 5-11 μ, brown.

 Henderscents arundanaces (Desm.) Sacc. On old stams of Phragmites described:

 Barre. 25-40 × 4-5 μ.
- Multi Thūm. On 1-ring leaves of Ameloncher alnifolis, Univ Spores 12-15 × 4-5 μ, brown, mostly 4-celled.
- Meteroptella Viburni Desruess & Bishy (7, 137). On branches of Viburnian Opulus, Univ.
 Pronde superfittal, dark troom, snorm 34-6 × 24 u, hyaline, mittulate at each end.
- Pycoxina supersista, dark brown, sporm 39-0 × 29 µ, nyamoe, gutumate at each cus.

 Leptostrorna Pinastri Dosm. On needles of Pirus Banksianu, Viztesia Beach, Man. and
 Macolowall, Soak. 6-7 × 4-1 µ.

Emphothyrisom Midplessons (Drom.) Store. On dead prizoles of Finnis metalane, Sellish and Univ. Spores 5-8 × 1.2 µ, hyshine. One specimes aboved a developing 'Lophicophaseis with young accompose 10-13 × 6 µ, hyshine, 2-selled.

Mannuphusua Salecia Drazum & Barth On twgs of Sales, 1 nov 22:24 × 7.0 µ. Mastumyoss Friesil Mont. On dend branches of Sales Jerselew, Lucr Pyrindia superfirial; anticle becoming covered with manner of scores, prover 20:00 × 3.4 a. 4-celled with a

gesta no rach rell, hydaine: New Myrosega, 26: 266 and Godranas servedua.

**Monoskiplestia Taubinesta Alburch. Un twigs of trav. Nepunde, Univ. Riporus brown, 8: 11. ×
4.8, 3-robbed. Species of Microskiplestia are found on various bosts. the differentiation is

of ten slight and if manual it is usually by the name of the host.

Micropora despectation Let On branches of Prints Heavys sais P. name, Larv. 20-64 ×

Strengores designoconsum Liv. On branches of Printis Bissey, and P. nagre, Lucr. 20-64. X.
2-6. g.
Philosopores Auguspaddi (Daum.) Grove Urptorus Arpapudis Daum.). On leaves of Ownerlags
Jonnardsky, Larman. Turv. and Womberes. Grove Oil discrebes this function wold. This

pycnicum will at imperfect, apresent 6.700 × 34 a. in Man spectation to taugus went. The pyconicum will at imperfect, apresent 6.700 × 34 a. in Man spectation.

— Anomorous Dil di Kellerin. On invest of Common cyticolrics, Bossevana and Dauphin,

Man and Humboldt Sask. Spaces 40: 40 × 4 µ in the Sask specimen.

— minimidential British & Jenziness. On Jenzim of Acer specimen, Victoria Breach. Bports
35: 45: 25: 22 u. Glassa & Archer (5) make this motion and source of others, renonvinously.

25-65 × 2 3 µ, Gilman & Archer (6) make this name: and source of others, synonymous with Septeria Aceris (Lib.) Berk & Br
Planess Phaema Phaemagalt Cooke & Hark. On stema of Artegodus perisonus, Batherland, Bush

Piparwe 5.7 × 2 μ, often with oil group, but scarcely spandle-shaped as described.
— Thurborishtila Sace. 4 Svd. Unituigs of Herberts surparis. U.e. v. 4.5 × 2.3 μ.

- Betas Frank On rotted roots of Bels rulparu in storage, Univ

- departmention Ploner Race on fracts of Lymperstrom servations. It is destructive to a shipmont of tomotone reaching Warning from Bermaria. Narrow 4 ft x 2 3 gs. materials, but Conver 910 from they become septate and that the fractions is thought Learners from

— adhiption Prek. On these of enhance terrons, Machine to a very many properties from fashington Prek. On these of enhance terrons, Machine to Mankaten Mankaten Mankaten fashington for the farments the A.F.v. On these of terrors of the Mankaten M

- herbarum Westerd. On Some stalk of Rhenn Rangauleum, Lew, 4-6-X 2 a.

- hiltorializa Crittica, O'Connec & Cuttonicia. Fifty this imilaturus from butter recommal in

Indicated Critime, US coases & Lutinizion. Effy two indicates from hister retinamenta in only, in many reggs. From state takes which had developed pure his post. Effective on aggregation abundant personals from which exade manus of flesh-ecored spiece, 4.7 × 2-3 a.
 In furgion was asso invisited from the air over the ocean inear feedand (60).
 Ingagen (72-c). Iven in Reported on Breasers sources was healthy and expisite in Man.,

Briggiore (Tesler, 1 Ferim: Reported on Brossees secretary shelps); and equivalent in Maha, but appointments have not been seen.
 Insignation (Pers.) Western! Common in the spring on deal stems of champed your allows.
 Law, Man and Medde Stade. The foreign evaluates were been accurate shelp sheeting on the

Dary. Nam and Prizar. Onto. I for longes produces very long narrow tome sterges on the sterms, determined the sterms, determined the sterms, determined the sterms of the

Ministiparems Prek. On ntenn of Mensupremius connecting. L'our. Bjoren 7 9 × 1§ 2µ, and
the fungus geree with the type

- makulinen (Prex. Meret in Berk. On old stems of Artemina sp. and Lapartos remodennes,
Crimad Banch and Tun. Stences. St. 10 × 2 4 in humitidate. This commonate menoms is:

doubless common

Transparediction Thum On same of Ave Aspende, Univ

- TPassentes Allercher On and stems of Passens officient, 1 nev 6-10 × 3-5 µ.
- Presel Prot. On twgs of Pranus Inspections, 1 nev 6-9 × 2-24 µ. Grove (9) analysis

this with Phomopole Princeton.

— Teambuckee Sace On tauge of Stanbucke sp., Indian Hend. Sack 6 10 × 3-4 p.

— theremognidicula P. Henn. On strone of Theremognic rhembylster, Sunkatoon.
[Plasmagnia Citer Fairect: On grapefruits imported uter Wunnerge, cold. J. L. Machacek J.
Phyllinatticul" absortives ISI. & Kellern. On Newspersion canadicus, I. nr. Spores 3-4 ×

1 μ . Tebon and Danada (Mycologus, 19–119) contend that the aloudd be called P wenteperwoods, and the Reptorys on number spots S aberrow. Both may prove to be stages of the salous fungue.

^{*} All appear of Phylliathets and depter as here reported subshit from laying values otherwise stated

- Phyllosticta falthacicals Past. On spots on stems of Althous roses, Univ. Scots grav: pyrmidal wall thin, snores $5-7 \times 3 \mu$.
- w Anthebini Red On Antirebours motor. Ut. v. 4-6 × 13-2 u. Berberidse Rabcob. On Berberis sulpurie; Univ. Spote gray with purple border; spores
- 4-6 × 2-3 p. - Betan Ordern (no doubt the same funerus as Phono Betas). Continuo no Baio milestrio: Univ.
- Carden-tee to a rear-bests and manuals are affected, and autostimos record - Batulas Ell & Ev. On Retain albu var pumyi/erg in cultivation. Univ. 4-5 × 1 a.
- brunnas Deam & Sarth. On Proping telegrafers, along the Hudson Ray Railway, 332 miles from The Pas, coli P N Gregory, Aug 23, 1984 Agrees with Fungs Columbiana, 5040; source 4-6 × 1 2 µ. Probably this species, with spores 3-4 × 4-1 µ, on Populus tremuloider. Emma Lake, Sask
- -- Carleta (Fuckel) Sace. On Cover Francisma, Norway House. 5-6 × 2 x. - circumsciasa Cooke On Prunus sp. cult., Morden Spots brown, gray in centre, some-
- times fall or out of the leaf; spores 4-6 × 14-2 u. - Commonati Ell & Ev. On Paconia sp., Univ. Pycaidia few, epiphyllous, apores 4-8 X
- Convallarias Pors. On Synthetics stellate, Univ. Vivian, Man : probably this mesons on the same bost at Indian Head and Mangroft, Sank. Gilman and Arthur (S. 423) nomider
- this a phase of Spinoropas cruesia. 10-12 × 8-9 g Corni-canadensis Dearrem & Bisby (71 138). On Cornus canadensis, Victoria Beach. Bross 1 2 mm, wide, records resolvtions, c 150 a wide, sporm 33-5 × 4-1 a.
- cornuts Ell & Kellerm On Archrysa syraco, Univ Sporm 3-4 × 1 µ, Cercosporm Irlanda is present on the same leaves, the Physicalitia may be a microscottilial stars.
- Crataegi (Cooks) Sacc. On Crategus sp.; Univ B-4 × 14 - Dearwess! Succ. On Pubus Iryforus, Victoria Bencis. 4-6 × 1) µ.
- duckdus F2. & Kellerm. On Steuronems cibistum, Univ., on Geum strictum, Berens Rivac. 6-6 × 14-24 n.
- Dianthi Westerd On Luchnus Ichalcodorson, Brandon, Univ. Man, and Indian Head. Bank Spots more or less circular, up to 2 cm. wate, paind brown, border dark, often concentrically marked, pyenolis epiphy-lous, 109-150 a wide, wal. thin, spores ellipsoid, eguttulate, 6-12 × 3-5 a. Some of the spores (in the Sask material) show a very slight
- tendency to become narrower at the centre, and the fungus perhaps becomes Associate Dunitis Berk (see Grove, 9). The specimens mem to fit the account of P Luchuids in Galman and Archer (8. 374). - Drucocephala Dearness & Blaby , Mycologia, 18: 252). Cammon on Drucocephalum parei-
- forum, Fisher Branch, Killarney Lydiast, Roblin and Univ. 7:13 × 34-44 p. to feet score Back. On Assemblanc actions. Norman House, Strate 1 2 cm, strates 7-10 V 21-4 g.
- Heraclei Ell. & Dearn. On Heracleum langton, Daupton. Agrees with Fungi Columb. 3774. 4-5 × 2 µ.
- hibiselna Ell & Ev. On Hibiseus esculentur, Morden. 4-8 × 2 ss.
- biente Ell A Decision On Sector behaves Their Spots indefinite mores 3-6 V Lu
- innumerabilis Peck On Ameionolury alsoloing agreest Man, and finite. The brown spots become covered below with pycnaka, spaces 6-8 \times 14-2 μ . - Intermista Scaver On Populus sp., Univ., det. J. J. Davis.
- Indeeds by A. by On for contriction Doughin Unity. The mote are as described but the
- spores attain a larger size, being $4-10 \times 2-3 \mu$. - Lames Sen. On Arction Manne Tinte. 849 V 3 v.
 - Lenterinia Sacc & Std. On Vibrature puberons, Univ 4-6 × 2-8 µ. - Brida Elt & Ev On Quereus mucrocurpu, Univ; det. I J Davis.
 - 71. rehnidia (Kunza & Schmodt) Ell & Ev On Lychna sp. cult.; Indian Head, Sask.
 - minima (Berk. & Curt.) El. & Ev. On Aur ansatum. Minaki. Viotoria Reach. Recom
 - mostly 6 × 2 n. - minutipaiena E2 & Ev. On Aur spiceton, Minaki. 2-2‡ × ∮-1 µ. - Negrandinia Baoc. & Spec. On Aper Negrands: Univ 8-9 × 3-4 s.

Dothiorella and Macrophoma

- Phylicatics Petasitidis Eli & Ev. On Poincies aspilletos, Clear Lake. Spoin substeadur, whitish, marked with concentre darker hour, harder marked also with a dark brown some
- 1-2 mm. wide, pyvenden few, epiphyllone, spires 5-7 × 3-3 s.

 —phasmatherwise Sacc. On Querrus searceorpe, Carman, Unr., Victoria Banch. Spires large,
 emminosity 14-22 × 6-9 s., but may reads 25 s. in length. This spiress has been placed in
- plesstaginicola Tebro di Danela. Common on Photogo vapor, Brandon, Dunros, Elm Crobt, Magregor and Univ. 8-14 × 3-4 µ.
 Tibartaginis Bace On Plantago vapor, Seress Brow. Spots 1-8 mm., sirvolar, whithis,
- Pfinstaginis face On Pfinstage reaper, Berem River. Spots 1-8 mm., structure whithin, thin and transforms, herder darker, pyraudis ampligments, 80-160 μ, sporse 4-6 × 2-2) μ,
- mbcylindric, with a small gutte near each cod.

 shadcole Ell. & Ev. On & Ann. Faru-dendron, Victoria. Beach. Sporus 6-6 × 2 µ, often with a vette as anche and of the more. Little of H. was found.
- Rudbochase Ell & Ev On Numberto inconnets, Daughan. Spores 5-10 × 23-3 µ, straight or somewhat curved.
 asserto-soldes Pech On 3 site volvene and apparently this species on Colorius sounders. Univ.
- Boren 3-5 × 1 μ, cylindrical with obtuse ends.

 obrassimella Bres. On Rheum Rhapsotroum, Brandon, Univ 10-20 × 4-5 μ.
 - Symphuriourpi Westend On Françoissurpes sp., ?Marcelm, Sask
 - Tiline Sacc & Poug Cu Tabe surroune, Univ. 3 7 × 5 3 µ
 uprhumbosin Martin. On Frebrus Sactois, Brecon River. Spots small, j. 1 mm. wide,
- pmilled, then and transformst, with a recident-purpose framed border, pyrandes free, amplitgenous, 80-160 pt. spores 5-9 x 3-3 pt. Duerdord on 7 hastein in New Jersey recorded by David Cream. Micromina Acad Ser. 2.1 2005 on Y attents in Wisconsin.
- wykates Crista. Veneziman and V my. Galbert Plaina, Killarnery and Univ. Sportus ⊕ W ≥ ⊕ µ, kyaline, but stonewhat brownish in mass. ⊕ ⊕ X ≥ ⊕ µ, kyaline, but stonewhat brownish in mass. while № B & Kellers. ⊕ Pranton zennashman was sancelain. Ladnolom, Bioth., on
- F paymentenesse, Law Man Gilman & Arphus (B 882) combine F viridas, Figurito Fragras, Septema Brarya and other spacing goder Cybudeusperson Frazins (Fill & Roll.) Rb. & Ev
- virginiana (EE & Habitel) Tasm. On Prints represent, Law Sporm 6-8 × 1-1] p... The spots and sporm are very similar to those of P innumedials.
 — Milesia Milesia & Curi Thum. Harre of feasing-the. On Printer eventuals. Kenner.
- Spores c. 10 × 0 pt.

 Pfagestis Frankel Birth & Cust. On leaves of Frazeus compours, Sushaboos and Sutherland,
 Sask of F provinger on var Jerocedoks, Indian Hend and Lamades, Sask , common on
- F, pennepleatics; Univ., Man. Hee Phylioticis virials above.

 Magnesdisis Ell & Dearmes. On leaves of Aver Interior, Baskatons, Pask., very absorbent on
- fallon leaves of Acer Negunds in October; I nev., Man. Possibly related to Septeria Negunders.
- Flancouphancia passettierunia (Fosteri Barc, stage of Pavolopotic reportin g. C. Su Ivaves of Galvan breede, Dana, Sanka sporter, e. S. v. 15p., no. Crysforwa, Brech Bill and Luc., Man Plancolamana Bhilliatti Universe & Stanford. On Althour visco, Hegina, Roak, on Melviter and Rakatoro and Next. Host. The Tomoro was described Associated New 20, 2021 (1997).
- Alberts, where an agunous brown root rot of swart clover is preduced by this fungos. It has not yet been found in Mastroba.

 Pyrennelson expragalacide size: On stems of Cyranon errorae, Univ. Pyrendin c. 150 µ in.
- diameter, the outseer surrounded with orton up to $130 \times 5 \, \mu$, spores 4-6 $\times 2 \, \mu$. Rhabbdespeers rangion 8-d. On dend stems of Theorems despurpers, Indone Head, Such. Spores hyaline, without septs or guitate. 15-20 $\times 2 \, \mu$.
 - Bullsbaginia (Cuole & Ell. Bace. On stome and moret galls of Rolidago sp., Uncv., Man., Indian Head and Midale, Sask. 22-28 × 2-3 µ.
 - melogrison Peth. On stems of Folidage sp., Law. Stem solored gray, spores up to 70 × 2 st. - Vibureal-Opelii Dearsess & Suby (71 140) On terigs of Fiburesss Opelius, Law. 20-40 ×
 - 1-13 µ. Amenated with Disjonalla manifelectate, p.r.

 Symphorizonyd. This name madvertunity listed on p. 100 of "The Fungs of Manifeles," is a nonex number. The fungue on the twigs of Symphorusonyse continuity, Unity, has strumment blank reveales with about, solor minimal large 1-04 × 2 n.

- Septoria Agroppyi Ell & Ev. On Agroppyon Richardsonii; Roblin, Man.; on A Smithti; St. Norbert, Man and Broadview, Sask , on A smoram: Morden, Man, Margo and Baskatoon, flask 32-52 x 2-3 u.
- alaifalla Ell. & Ev. On Alous money, Birds Hill to Norway House and Valley River 40-66 × 2-3 µ
- Anamones Desco. On Anamone opendensis. Brandon 15-85 × 1-2 u. - And (Br. & Cax.) Chester. On Ansum grassiens. Marden and Winnsper. Snote large. with few overodia.
- Anti-graveolaritie Dorogie. On leaves and neticus of Assure graveoless. Miazoi and Univ Spots small, densely covered with pyonidia Cockran (Phytopath 21 115) considers this and S Ayes to be distinct. Both cause considerable injury, unless thorough spraying in
- practised - Targophylla Ell & Kellerm. On Pavalsu provokstla; Brandon. Brores up to 70-90 × 4 a; the original description gives mores 40-55 × 24-33 a.
- Astronali Reb. & Deam On Lotherus muritimus, Berros Rever, Man ; on L. ockedourus; Fisher Branch, Man., Lake Wankesur and St. Gregor, Sask , on L. senorus, across Man. and at Naccam Sask. All these collections have similar conspicuous, stregular spots on the leaves, but the appres in some specimens are only 40-70 a long, in others they reach 200 is. The spoces are rather errogular, 2-4 µ wide.
- atropurpurea Pecis On Aster nordifolius, A lauria, A Lindlepenue, A nors-belgii, A astersons and A upp., Berens R.ver and across southern Man. Spots often purplish, spores 50-110 × 2-4 µ
- wures Ell & Ev On Ribu sarvum, Univ., Man. (det J. J. Davis), Indian Head, Bask - Avenae Frank, stage of Leptorphorsis overgrus. On Avena sativa, Brandon, Man. and
- Baskstoon, Bask. 20-41 × 3-4 u - bardilinery Wint. On Audrouse traffile. Oakville and Univ. 26-48 × 13-2 a.
- Bassayi Pock. On Francius properleasion, Stitum and Univ. 35-50 × 4-5 u. See Phyllosticto riculus.
- Thetulicola Peck On Retain allo var puppysjera, Kenora. 50-65 × 4 µ.
- Bayrel Dearness. On medicars of Heads albs var paraetters in a numery. Decreases. Spots reddish brown above irregular, pycnoliu epiphyllous; spores septate, 20-68 × 2 µ. - Benryl Sace. Not remmen on Browns increas. Navaota, Man and Indian Head Saak.
- The suprimers were found by I. I. Conners to have stores 24-64 × 2 u. mostly 4-relied: the spots are usually small, gray with dark margin, delted by conspicuous pyrandia 80-200 µ long - brazulgena Sace. Comezon on Browns secrets, across southern Man and at Saxatoon,
- Swift Correct and Vorda, Sask , on Eigenus Macourti, Margo, Sask Mr. Conners found the service on Honorous to be recommended by the 195 and 195 a sporce falcate, arous, granular 19-3, × 24-34 u. The type was reflected in North Dakota; see Brenckle, Funzi Dakotonses, 319 - Bruneline Ell & Holway On Provella rulgeria, Vivian. 45-70 × 2 u.
- Callistephi Glever On Colostephus chancuss, Brandon and Morden. Scores in one spectmen 42-52 \times 2-21 μ .
- TCampanulas (Lév.) Setc. On Composado apprincidor, Victoria Beach. 30-40 × 2 μ. - canadensis Peck On Cormu conndenss, Victoria Boach. 25-40 × 1 a.
- Cannabia (Leach.) Sacc. On Cannabia sp.: Morden. 25-40 × 1 14 u. - Caraganus (Jacz) Dredecke On Corogana orberosoms, Indian Head, Saak: and Univ.,
- Man . on C ann cult . Ind.an Head Reathern and Saskatoon, Sask. The affected leaves drop prematurely. Thus fungue was first found in western Cacada by W. P. Fraser at Saakatoon and by B. J. Sadans at Indian Read in 1928, but was not seen in Man. until 1931, when it was consucuous at the Univ. and it has persisted. Spots indefinite, brownish, pyraudia hypophylicus, r. 200 a wide when malure, the spores usus as milky-white cirrhi, \$4-48 × 3-4 at becoming septate.
- 7Cariole Pars. On Carex Presionnia, Norway House 35-40 × 2-8 u. - chromathemalis Sec. On Circumferror menimum: Marden and Univ. 40-70 (90) X
- 2-3 a. Grove (9) szelneles this with P. Chrysonshevel Allegelt.

Septoria Ciroli Nicol. On Cirolon arrener, Southern Man. and at Indian Head, Sealt 50-90 × 24-8 a.

— Chematidis Rob. & Denn. On Clemetic Signatofolis, Morden, Man., on C. sp.; Indian Head and Rosthern, Sads. Spore 39-75 × 2-3 µ, often narrows: at one end. The may be S. Jackson-t Ell. & Ev. — semspleum Ell. & Mart.s. Common on Striemens chatten, Dauchtin to Berens Birer and

Univ., Man.; Indian Head, Saak. 32-54 × 1-2 µ.

— Carredruli Daim. On Consolrabus arreneis, Saakatoon, Saak., on C. aspines, Univ., Man.

38-60 × 14-2 µ.

— Coptidie Berk. & Curt. On Capta trifore, Victoria Beach. 18-22 × 1 µ.

ourretools Desm. On Coreas custolenes, Chamberlain, Balk, on C stolengers, Dauphin and
Bt. Adolphe, Man. 22-55 x 23-3 µ.

- convines Peck. Common on Corelas supersones across Man. Prenches a small streaker or

linear groups, spores 30-30 × 2-3 µ

— 7Cucurbitacearum Sacr On Cucuma Mela, Univ 20-30 × 3-4 µ.

- Disevillas Ell & Ev On Derville Loncore; Minak: 35-45 × 1-14 µ

divertosta FSI & Dr. On Phies Drummondii, Brandon and Univ. The seaf-apot is some-times injurious. 16-28 x 13 js.
 Threscongabull Thim. On Drummon-pholosus personals. Red Jacket. Bank. 56-70 x 2-24 ps.

Tertgerenteen Bace (S. Nigeronis Peck). On Nigeron canadinate, Braudon and Catherry.

- 18mglerenteen Bace (S. Nigeronis Peck). On Nigeron canadinate, Braudon and Catherry.

- 18mgellanis El. & Ev On Consolvaius sepium, Honomood, Univ Spores long, 45-90 ×

Tangethavis EL. & EV On Conscious espinior, Homewood, Univ Spores Nong, 45-49 v.
 2-3 p. S. Fagallarus was described in having spores 3,3-44 king, and scoording to Grove (9) in a symmym of S. Conzolnati.
 flamelihave EL & Ev On Pissure seatures, Univ. Man., Sankatoon, Sank: This species.

apparently northern, has govern 70-100 × 23-34.

— Gallaepatolis Westend. On Garaguas stratus, Normey House, Sman River. 25-44 × 1.1 ½ µ.

— Callaepatolis Westend. On Garaguas stratus, Normey House, Sman River. 25-64 × 1.1 ½ µ.

— Callaepatolis Westend. On Garaguas stratus, Normey House, Sman River. 25-66 × 1.1 ½ µ.

— Callaepatolis Westend. On Garaguas stratus, Normey House, Sman River. 25-66 × 1.1 ½ µ.

— Callaepatolis Westend. On Garaguas stratus, Normey House, Sman River. 25-66 × 1.1 ½ µ.

— Callaepatolis Westend. On Garaguas stratus.

extensive pyrindia ejephylkos, 150-285 µ, cetole up to 30 µ wide, spores crotinuous, 45-70 × 2-3 µ

Glycyrrhina Ell & Kellern. On Glycyrhina fepideo, Lumaden, Saak , det 1 L. Conners who reports that thus is evidently the first Canadian record. Philatenia (J. & I.e. Co. Helenium automatic. Can. 35-50 × 2-24 a.

Hellarstist EL & Kellerin On Heliunitus dunum, Murden, Man. and Routhern, Saak ; on

H. Marawiliana, Univ., Man., on H. petoloria and H. tuberovia, Dauphin, Man. 50–55 × 2–3 µ.
-- Increasions Peck. On Trientalia assertions (T. berealia), Berein River southeastward. 20–34 × 1–14 µ.

- Lapparum Sace On Arctum minut and A Lappa, Univ 19-27 × 1-1 j.p.

- Tiepiditeela Ell. & Marim On Lepidium apriolom, Morden.
- Liatridia Ed. & Davis. On Liatri opera (L. conson), Brida H.II. 60-70 × 21-3 µ.

 Lychnidis Dem. On Lychnic chareforica, L. Haspenie, and Steve necessors, Marches and Inv. Spores up to 70 × 3 µ, client with one septam. The fungus seems to 6t Grove's (9) description. The spores are too long for S. neriginas Ell. & Kellerm.

Lycooperated Byeg. Often rejurious to Lycoperacum escalentum in southern Man. 50-100 × B µ. — malviscala EE. & Markin: On Althree roses and Maire retundifishs. Morden and Univ.

84-65 × 14-3 µ.

— meenthrools Soon & Letend. On Mesche plobrier, Brandon, Univ and Victoria Beests,
Man, Prodromme, Sast. Spores 39-40 × 14-2 µ. Grove (9) considers thus syncosymous
with S. Mesches (Thum.) Oudem, others consider the latter to be a species with longer

with S. MenAnis (132m.) Undern, edges consider the latter to be a species with longer spores.

— This expectation (Lib.) Desen. On Menyouther syclosists (Gins), Man. Boores unsature, 13-25 × 12-2µ. This er a similar longue was collected in a quantity at Clear Lake, but

15-26 X 13-2µ. The or a similar fungus was collected an a quantity at Clear Lake, but it to text assaultafector, and the fungus did not develop further an amount chamber. Similar apacitions were found at Pike Lake, Siek. Infected leaves, overwintered under natural conditions, probably would bear anature stage.

Septoria Mimult Ell & Kellerm. On Minulus rangens on the shares of Lake Winneper. Spots agmetimes indefinite, sometimes with a definite darker border, spores 78-50 × 14 µ. - musicy Peck Common on Populus belocusters and cultivated hybride such as "P Patronstudies" across Manutche. Det in part by J. J. Davis, who considers this a composite

species Spores about 40-65 × 3-4 µ. See S. populscols. - Nabali Berk & Curt. On Presentler olds. Berens Rever and Woodfield. 20-30 × 1-2 a.

- Teatrolaiana Sace On Selemus feebulue: Lake Daurbin 40-50 × 4 a - Inebulous Roste On Colomorostus considerana Carman coll J. H. Craigie. 30-14 X - Negundinis Ell. & Ev. On Acer Negundo, Stonewall and Univ., Man, Judian Head, Sask ;

on A unicrosv Indian Hoad and Saskatoon, Sask. 32-50 × 21-3 µ - noderum Berk. Common on leaves and gluttes of Triteum outinum in Man, and Saak Constructions and sometimes in unous it was years. 18-56 × 3-4 a.

- Osnotheras Westend On Oractors bicagus, Clear Lake to Bolton, Man, and at Bethuns. Stak 25-35 × 14-2 u - Pasanias Westend. On Posonia albifora, Mordeo, Portago la Prarie and Univ., Man.,

Jodian Head, Suck Spores 24-32 × 2-3) µ. Grove (9) considers that var bereijnessis Allegel: "seems to differ from the type only in having concentre foldings in the leaf spot," a character scarcely shown by the specimens in Man.

- Passerinis Sarr On Hordram pulstum and H sulpare across Man , on H sulpare at Saskatoon, Sask 22-52 × 2-3 µ. mentatamunicula Fil & Ev. On Pressemen acuminana, Brandon, Speta adefinita:

pychidia 50-100 a with an acomplete wall, speed 30-75 × 2-3 a Physical and a 172 A No. On Physical and accounts the State of the Sta

Plai Westend. On Pisson sotirum, Brandon and Morden, Man , Indian Head and Swift Current, Sask. Spores 30-50 × 2-4 µ, much shorter, and the spots less definite, than in S. Sugellifera.

plantaginus Pass, var Plantaginla-massera Sacc. On Plantago mass. Oakville and Univ. Spores 28-35 × 1-2 u. smaller than in S. planturines

- Petypenorum Denn On Petypenum Pernearia Colbert Plans to Kenora - Tpopullools Peck On Populus supumfolis, Indian Head, Stak , on P busing/ers, eastern Man Lac Vert and Saskatoon, Sask The various species of Septoria recorded on Populus

are sourcely distinguishable $55-84 \times 13-4 \mu$ - psammophila Sacc. On Astropolus pectinatur. Sotherland, Sask - pailestage Ell & Martin On Colum boresie, Univ ; on G. triforum, Clear Lake. 40-60 X

- Ribis Desm., stage of Mucoephoredia Grossulariae (Fr.) Lordau. Common on Ribes foreduce, R Grossularus, R reserves and R resistors in Man, and Bask. This furnities cornectimes equals

defeliateen - Rubi Western! On Rubus ofseus var strappens across Man., on R. melanologius, Beaver Crook, Sask., on R. triforur, Vivian Man. Not found to be injurious.

- Rudbeckiae Fil. & Halsted On Rudbecks inconints, Dauphin, Oakville and Valley River. 44-56 × 1+-2 a

- ?salicina Pook. On Salix sp., Norway House. Immature. - many busing Park On Separate Processors Monten and Portage to Pennie Second 40-20 V Zu. centate

- Soutallarine Thum. On Scalellaria interafora, Kennes. 40-70 × 1-14 a. - Seculia Prof. & Delace On Secure servole, Univ., Man. and Sexuation, Sank. 30-40 × 3 µ. - Shepherdies (Sect.) Dearnow. On Shepherma consciouse, Birds H.H. The pyrandom wall

at anmetumes obsolete, spores 25-50 × 21-4 a, multiseptate. Slays Peck On Echinocysis loholo, Morris, Siften and Univ., det J. J. Davis, who counders S Brenckies Succ to be a synonym.

- Sti Rob. & Down. On leaves and stems of Sium neutifolium, Oakville and Victoria Bunch. Shorry 30-45 × 14-2 u. on the sterm they were found to reach 50 u.

- solidarintoola Peck On Solidace meda and S. arreting, Univ 40-65 X 2 st.

- Senchi-arrende Dearnes & Buby (Myceloria, 20 200). Common on Senchus gramate: type collected at Univ , found also at Minaki, Victoria Beach, Man., and Quill Lake, Susk Spores 20-50 μ long, commonly $2\delta \mu$ wide at one end, $1\delta \mu$ at the other

Baptoria sanchifulia Cooke Rare an Konchus armone, Univ. Spares only about 20 μ hing.

— Banshydia Babi. & Dono. On Nordyy polsors. Severa Raver and Univ. Spares 20 h N × 1-2 μ, in one collection they reached 40 μ to longis.

1-2 µ, is one collection they reached fit µ in length.

1-2 µ, is one collection they reached Minah. 55-00 × is 1 ½ µ.

- Brumshartenris Ell & Fv. On Samphorourpes economists; areas Man, and at Indian.

 Byrapharterpi ER & FV Cu Apropher-urpse eccelerator; arvain Man and at Indian Head. Invertacy and Statistics. Peak. Distributed by Seventia from North Dalota in Panal Dakotenon, 372.

- Thelictri Eli & Ev. On Thelictrian op. Kennen. 30 60 × 1 13 p. - Tritist Dum. Factly common on Triticum accomm in Man. and Red. 30 35 × 13-3 p.

- Urtime Dom & Rob. On Legarite considerate and firtue precise, Larv. 40:40 × 14:2 m. Varantees Bob. On Legarite specific 3. marrows March 30:50 × 14:2 m.

- Vaponicae Rob. On Vermice lengtists. 5. mornisms. Misrolev. 30-30 v. 1§ 2 p. - Vapon Western Uni Verland, p. h. Misrov and Missai. 18-31-40, v. 1§ p. - Marthit Destr. On Varibritis p. 2 derives and Lake Western on A. normous Wassington.

peg. Persobs temerous bud spote munitimes about 30 55 × 2 2 μ = TKytestei flore & Wast. On Lonevez Episconerus, Clear Lake. Spores 46 40 × 2 3 μ

Sugger than given for this species.

Bighamengraphtson networm Decrees & House Not involution in parters Man on fallinturgs of Prissin, Rives, Patter etc. The revet steader superficial pycardon are where, spaces

20 64 r 25 35 a sarrowed at the rada hvalue guttate breaming arginte. Sphannensons proteomers: Pock. Common on branches of Undaneter simplehs, Univ.

16-22 × 7 Ψμ
— Tegenedila halchite. One scolators from sed in Man. Pyrandia m culture with long "archa", moreoz 23-3 × 1.ε.

Bighiareannealth, Bellevillae Xarel. On Heledin (1/4) and H epharcepore. Manda and Vistors, Hearth. Spores b. 11. № 6. a revenamentum their that here show industriant and forming a neptum, as Perula 12. 1544 found in operations from Link Bernel. Meeb. Management of the Section 1. 1 and 1. 1 are their contractions of the Section 1. The common and Link Management of the Section 1. 1 are their contraction of the Section 1. 1 are their contraction 1

Spinissergaping allegations Lett. B F V. Commission on the spirit letter X-spiritude. I revertigate and I may Man., I reduce (Error X-spiritude). The prefix partial partial properties on a survey content of the properties of the spiritude of

- Assurphise FR & Burther - the Image of Assurphs Francisco - I nov - ch 26 × 9 11 at - Corph ER & Ev - Uniterabelors of Lorents up - Lore - 16 24 × 10 a

- Compth bill & Fv. Unitropiches of Lorsings op Lace. 18:24 * 10 p.
- Surtitio Peak. The tange of Francisco processors Lace. Papers 23:30 v. 10:12 p.

- Serville Peak. The targe of Franciscopers of the Personal The Person 23 30 × 10 12 pt.

- Makeruse Peak stage of Franciscopers of the Franciscoper to the brancisco of Franciscopers.

— offreen Utik. Fix branches of Pale environme. I mix community to these little regarded it the privated stage. Petral and Privat and Privat and Privat and Privat and Privat.

— Tpropudana (Eriw) Froh U selection Proh. On otems of Listeria arondon, Univ. 31-40 × 9-11; p. — 21-40 × 9-11.
— O selection of ER. On to up of Silva survam and E relpor, Lav. 19-28 × 9-11; p. — 210-40.

— Byringer Perk & Chinton. On Image of Syringe redgers, 1 nov. 10:24 x. 10:12 µ.
— undestroke J.B. & Pr. On Image of Found intervenies. 1 nov. Reports 20:27 v. 9:11 µ. herein.
— with arms. D.B. & Pr. Christian this name on S. Folkerforms Heart. On tensor of 9 the redwest.

 witigens bill di by (perhaps the same as 5 felosforms flore). On temp of 1 the relpose, Unity 14-26 × 7-11 µ.
 manufactoristics of temperature of the same factorists. Unity W. L. Gerden. 22-24 ×

[6-11 pt Beagencepore albeaneme J. J. Davis. On old leaves of Covic Frontiers, Norway House, worlded by J. J. Davis. 55-65 × 8-10 s.

Asserphor Dearing & Suby (Myrologis, 20 225) On tergs of Asserphofrencess, Univ. 43-56 X 4-5 p.
 Astronous Washed J. J. Land. On Survey of Chronochem alliest C. conseque and C.

Agiruban arrows Man, and allows at Indian Hond, Such? Spaces usually 10-32 \times 6 \otimes μ . In the spacesor from Such they were 40-40 \times 3-4 μ , thus may be a detacet spaces not found to be described.

Staganospers Malited (Lanch) Petrak (Associate Mellini (Trel) J J Davis). Common no stems and lavere of Mellinies allow and M. afficiently across Man, on A abox a Unional Head, Sock., probably the specime on "Publicos dybridoss, Wastern and Backstoon, Bask. This Ingun soundiness access evere august to were dever. Gillman and scherby (Spinados, this and Astrologia Mellinospinus under Mycosphaevalla lakablic Stoons nos also Horstali, Cernall Univ. Memory.

 Petanitidis Ell & Lv On leaves of Petantes polentus, Clear Lake and Victoria Beach. Spores 30-25 × 5-6 μ. hyalics, granular, becoming 3-4-ceited.

 Smilacia (Ell. & Martin) Sacc. On leaves of Svalaz terbaces, Univ., det. J. J. Davis. Spores 13-23 × 4-7 μ, becoming 3-5-celled and finally brownish.

Wojnowicia gramunia (MoApuni) Saco & D. Sect. On Trainius centrum, Humboldt and Sanke, Sask. Inoculations at Saukaton proved it to be a week parasite of Broome pumpellumns, Hordeno valger and Trintium centrum.

DERMATOPHYTES

Achterion Schoon-hainii (Labret) Remax: Isolated from five cases of favus capita of musuganote. Apparently does not apread in Man.

—violaceurn Bloch. Isolated from four members of one handly of musuprants from Poland with tune capita. Does not appear to have apread in Men.

Endomycopsis albecans (Vant.) Dekker Occanona, on man in Man-

Epidermophyton cruss A. Cast Prom five cases of risgnorms of the epidermis of man. Microsporon Audouins Gruby From 54 cases of times of children in Man.

 felineum For & Blaza. Lisolated from 49 children in Men., also present on cate and dogs, from which children often contract infection.

 — pubeacens Sabrar: Asso consoon on children in Man., and considered only a variety of the preceding (see 116).
 Pityraapeers: Malassassi Sabsur: In scales from the scalp of nearly every adult patient

examped in Man.

Trichephyton album Sabour Relatively common on man in Man.

gypseum Bot n. Zen records, all from rural districts in Man.
interdigitals Prientley. From same of ringworm of the feet of man in Man.

nterdigitale Priestley From cases of ringworm of the feet of man in

XVI. APPENDIX

The following records have been added during 1997: De Goedon's securate int of sproce of Pasariam, readed by The Walescape and Sterbards, row calcid 20 distinct sproses and 46 writers, articular scale forms. The corresponding figures for the world in Wollin-worker and Rendesing see 06 and 148. This means that 80 gril, of the precess recorded for the world, and 30% of all forms, we see known in Man, and Saak. Thus is skilking example of the wide distribution of flowers.

Mycospharetila Tassiana (de Not.) Johans. On Scirpus velidus, Pike Lake, Sack.
Thacaphora cursuata (Stofichi) G P Cindon. A smut on Oriedein squareos, prenumably this
agotins, a reported for Man. by T Jehasen.

Fernes Eliaienus F W Anderson On Stephendra argesta, Saskatoce, Sask.
roseus (Alb. & Schr.) Cocke. On confer. Keyratta, western Ont., Sept. 1932, cell. M.

Timonia. Reported by Dr. Moures and bliss Merces (Cas J Roserth, 16, C 184-181, 1997)

Genster super (Mich) Lloyd. On the ground, Indian Head, Sack.

Lycoperdon pusilium Batech On soil in a wheat field, Muenster, Sask.

Cadophora fastigiata Lagerb. & Melin From soil in Man.; comm. J. E. Machacek. -- 7Melinii Nanni In soil in Man.

Candida variabilia (Linuner) Beckh. In soil in Man.

Demartium pullulans de Bary Pungi of this type (Philulans app.) in soi, in Man.
Fusacium angustum Sherb. From basal parts of Hordeum sulpare and soil in Man.

- concolor Reinking. From soil at Indian Head, Satk.

Fugarium conglutinans Wolkenw var Betau Stewart. In basel parts of cereals and in soil to Man.

— lactis Fr. & Rib. From basel parts of wheat and soil at Wismood. Eins record on cereals.

Sambustnum Fockel form I Wolfense From soil, Winnipeg.

Salved Lamb. & Funtz von communiture Wolfense. From wheat in Man.

Scirpi var. caudatum Wellerse In soil in Man. Oldiodendron grigesim Rokak In so., in Man.

Oldiedendron grissum Robak. In son. in Man.

Streptothetx Mouncese Sumatine (Mycologis, 29 240) On bark, Kenors.

Phoma glomerata (Corda) Wallauw & Hochsfel. In sed. q Man.

Santoria Communicati EE & Ev. On Circium in Man.

XVI HOST INDEX

beaves, strate, etc. In many cases there follows a fast under sub-insidings as a follow: "testify deferrence, many," of each lab for the descripted smaller manders of uncer or suggest strategy, and the superior of strategy and the superior of strategy and the superior of the superior of strategy and the superior of t

Furner tested directly under a nest are apparently paracter, and usually are found on living

Certain hosts, such as Populas, Tritorum and Symphorestropos, have teen examined rather earefully for fungs, others but utile, and many heats are not nelected in the Rost Index because no funnish has a vet been recorded on them on Man or Sant

The sources of names of hosts are given in Section I above. Heets infected by inoculation are not included in the Host Indix. When two or more species of hiets in alphabetical sequence have the same long recorded, the names of the fung are not repeated. Qurry marks applying the hosts or fungi are nearly all matted in the Host Indix.

Abies balearnes (L.) Mil. Lophodermean Pissas Melampsora Abieti-capracarum Pustimate alm Gostpertanum

Uredinopeis marabille
U Struthunteridis
terige Ampharphaens incruatana
Ascocalyx Abartis

Cortieium gaastinum Dasystypha Ageasina Maranzu sa campanellus Bolecouctria balastosa bark: Caldenella vizidas

Cencophora olivacea
Tremalla sacobarina var foliacea
treed Conticium bisolor
C. nelliculare

C. subcoronstum
Pomes pinicola
F. nubroseus
Glonaum stellatum
Hymenochase tenuis
Hypechniss fumosus
H. ambonus

Hypochnus fumorus
H umbritus
Oxydentia albevirida
Peritubora alutaria

Ables belsamen (L) Mil) -Con.

P prousa Physicum contextum Polymorus Schweinsten

Acer Girnala Maxim, cult. Rhytema acerinum. Acer interior Britt. Piggota Negundana

Piggota Negundans Septona Negundada Acer Negundo L., native and cult Puncion latentium

Phyllostieta Negundinis Piggotas Negundinis Beptora Negundinis Beptora Negundinis Oytospora aumiata Diplodus atrata Pamaidilis phasospora

Loptuostoma quadrisuoleatum L. triorptatum Microdiptodia subteota Neciria cinnabarina Phoma (umosa Schiacyujo, compositum

Sphaeropsis albestens Telchospers clavispora Acer Negundo L., antive and celt.—Cos. tage: Tubercularis, vulgarie bark: Distrype hochelagae

Eutypa .od.bunda Hypoorea rufa Libertesia acerina

Pensophora longispora Stereum cinerasoess used. Bertia moriformus Comophora suffocata

Cort.com fenestratum Duedalea un color Favol.s caradensis

Fuzzes connatus F scutcilistus Fuzzeium retoculatum var Negunduns

F sambucoum

F Science your neuropature

F sporetriansides Guspina elegans

Hypochinia umbraza Lagosphacia hirsuta Mousia cinerna

Mousia cinerca Odoutsa arguia O octagora

Otthia Hypocylez Penophera gu,tulifera Phobeta silbeerruulata P ercetahua

P spectables
Pleurotus slongstipes
P septicus

P ulmarius Polyporus elegans P gilyus

P ressorus P telipiferus

Porta ferroginosa Radulum spathulatum

Roschuses mare miforme Stoccherinum septentnonsle semores Phoma negundimocia

Acer seccharinum L., cult.
Rhytisms scenium
Sphaecopus albecces
Acer apposture Laze.

Acar apicature Lam.
Glocospurium tremellinum
Phicospora canadensis
Physicetista munima
P. municairus

Rhytisma pusotstein Uncirula sircinata Achillea millefolium L. Entelema Athiliana

Pleospora megalotheca Puccinia milicielli

Actnes alba (L.) Mill.

Actaon rubra (Ait.) Willd.
Puccian rubigo-vera var Agropyri
Ramularia Actaeso

Ramulariz Actaeso Actaea rubra var. neglecta (Gillman) B. L. Robioson

Robinson Ramularia Actaene Aegilope cylindrica Host, cult.

Puccines glumarum
Aparicaceae: see also Coprinus and Ruspala
Dactyllum dendredes

Mycogone envina Bepedonium chrysospermum Sporodinia grandis

Agastache Foeniculum (Pumb) O. Kuntse Spinerethera Hamsh var fuliginea Agoseria glauca (Pumb) Steud

Purcuna exteroicola var horneiata P Hieracii

Agrimonia gryposepala Walir Puccinistrum Agricuonia Agropyron gristatum J Gaerta, cult

Agrosporon eristatum J Gaerta, cult Clavieros purpurca Puccinia grammu Pythum arrhenomanos var canaderais

Agropyron desystachyum (Hock.) Scriba Claviceps purpurea Epobloc typhina Puccina gramini

Puccina gramma
P mortage-vera var Agropyri
Agropyron Griffitheis Scribn. & Smith, cuitPuccina gramma

Адгоругол гервен (L.) Венич Сіамістря разріштва Вгумірів дташила Риссина дзашила

P mortanensa
Pyttrum artienomants var ognadetois
Beolecotrichum gramass
Agropyron Richardsonii Schrad.

Puteiaia graminis
P montanensis
P rubigo-vera var. Agropyri
Septona Agropyri

Agropyron Smithii Rydb. Asoothyta gramimoola Bacterium Agropyri Claviorpe purpures

Epochice typtuna
Puccinia graminia
P montanensia
P rubugo-vera var Agrapyn

Scolecotrich am gramanie Septoria Agropyri

Agropyron tenerum Vesey, ustive and cult. Clavreeps purpures.

Colletotrichum grammis

Agropyron tenerum Vessy, native and cult.

—Cos

Nigrospora sphastics

Nigrospora sphastica Phyllachoes grammic Puccints coreasta P grammics

P mootenensis
P rubigo-vera var Agropyri
Pythuca arriencemica var canademis
Septoria Agropyri
(triban bramayora

Agropyron 19p. See Ophobolus graminia

See Ophichelus graminia
Puccinia glumarum
old steary Aerospectnum compressom

Agreetie alba L., native and calt. Puotina grammis Agreetie hyemalie (Walt.) B. S. P. Phyliachen grammis

Patridis
P Latridis
Alisma Plantago-aquatica L.

Dossanna Alimatio
Physoderms instulare
Rhynchosporium Aliamatis

Allium Copa L., cult.
Botryte Alki
Colletotriohum circinane
Permenora, Schladeniana

Urocyste Cepulae
Allium textile A. Nois & Machr.
Puccusa granulispora.

Purcuma granulispora

Almus incuma (L.) Morneh

Franziella Alni

Microsphasca Alni

Ophiodothis alneum Phyllactinia corylea Septona alnifolia Taphrina Alm-intanae

Taphrina Alm-incanae branches: Eerka monfeemas Cyphelia fasocciata Daecialea uncolor

Datchuss concentrics,
Diatrypella placenta
Eutypella cerviculata
Focus guarius
Hymensohate badioferruzione

Hymenochaete badioterru Hypoxylen fusrum H. Mores Melanconis marginalis

Melancona marginalia M. thelebola Meralius niveus Odosta setigena Penfophora surantiana Folyperus tulipifarus Torula almas

Toruis alnea Tremella lutescens d cult. Ahrusa incama (L.) Moonth—Con, brancher. Trogia crispa Valus ambient Vamera morodos cofinis. Ciberia marentacea Scierentuma Ann

> Alopecurus geniculatus L., var ariatulatus Torr. Uromyos Alopecur

Alopocurus pratanals L.
Puccion grammis
Althae roses L., cult

Althaes roses L., cult Assocityte parasitics Cercospora althaena Phyliosticta althaecols Phonodenus Mellota

Phenodenius Meldioti Pinonius Malvanearium Salerotium selerotiorium Septoriu malviecia edd storia Stitzotrum deciduum

Althaea rp. cult.

Eryciph Cichocacearum,
Amaranthus retrofleaus L.

Alburo Blitt

Alternaria Amaranthi A. Solani Ambrosia pullostachya DC Albugo Tragopogonia

Plasmopara Habitedii Puccinia Xanthui Ambrosia trifida L. Entyltosia Compositarum Erymphe Cicharacearum

Erysphe Cichoracearum Fuecinia Xanth... Septocia baciligora Amulanchior atrafolia Nutt. Aptosporna Colinsii

Cytospora buccetoma Entomosporangium ciavamiforme G. ciavipes G. centrentana G. juvenescent

G. Nelsons
Hendurquia, Man.
Mondia Amelanchisteis
Phyliosteta minimaranbilis
Podosphiera Oxyacanthae
Triohosporium parasitheum beanets: Calometria Dearmon.
Cottavam suptostirosile

Cryptospharia fancols Diaporthe tuberculcoa Diatrype stugens Diatrypella quereina Franco contributos

Fomes soutcliatus Hymenochaete agglotinans Amelanchier alnifolia Nutt.—Con.

Karachia lignyota Mataura Pyri Pemophesa dinerea

Pieospora pustulara Polyporus pianellus P sempileatus P tulipiferus

P tulipiferus Sphaerenema pruinosum Valsa leucostoma

ald ferrer Lephodermum tunudum Amorphia casescores Purch Cercospora passalloroides

Uropyus Amorphae Amorpha frutions L.

Urepysia Amorphae bronciee Camaresporium Amorphae Cureurbeteria chongata

Disporthe Amorpiase Distrypt tumeds Diprodin Amorphase

Diptodia Amorphae Platmanaria siparia Spinerepsis Amorphae Stagonespora Amorphae

Singonsepora Amorphae Amorpha mana Nutt. Uropyxis Amorphae

Amphicarpa monoica (L.) Ell. Cércospées menoica Erymphe Polygoni Eynohytrium accidentiu

Andromeda polifolis J.. Rhytima Andromedae Andropogon furcatus Muhl.

Sphnoelotheon occidentalis

Andropogon scoparius Michx
Puccinis Andropogonis var. Pegtstemones

Arromono canadensia L.
Didymaria didyma
Pisanopara pygnaea
Pusunia Apronaea virginianae

Pursuas Anemoass-virg P Magnasana Septora Anemoass Anemone crilindrica Gray

Phicepors Ancuones
Phochus rubugo-ves var Agropyri
Anemons globosa Nutt.

Antriotis globosa Nutt.
Puotinis rubigo-vera var. Agropyri
Amemone pateus L. var. Wolfgunglana
(Rescut Karls.)

Paceiras Pultatiliae Transachelia suffusoa Urocyntia Angusones Antirrhanum majus L., salt.

Physiostiota Anterion Puccinos Anterion Aphididae (Insects)
Empuse Aphidis
Aphodius firmsterius (insect)
Beauveria Bassana

Aplum graveolens L., cult.
Bacillus carotovorus
Cercoapora Apii

Septocia Apii
B. Apu-graveolentis
Aptopappus apinulosus (Pumh) DC.
Protina Grindeliae

Apocynia Griodeliae
Apocynia androsaemifolium L.
Cercceporella Apocyni
Apocynia cannabinium L.

Cylindrosporium Aposyni Aposynism acopulorum Greene Cylindrosporium Aposyni

Cylindrosporium Aposysu
C. slocicum
Apocynum sibiricum Jacq
Cercosporium sibiricum
Cylindrosporium sibiricum

Septoglocum Aporymi
Aquillegia sp. cult.
Maraccaina Aquilegiao
Arabia brachycarpa (Torr & Gray) Brit

Arabis brachycarps (Torr & Gray) Britt.
Pactinis zonoica
Arabis glabra (L.) Bornh.

Arabis glabra (L.) Bornh.
A.bugo candida
Arabis ovata (Pursh) Poir
Arabis retrofracta Grah.

Puccina monica

Aralia mudicantica L.

Cyundrosperium isptospermum

Nyssopsora olavellona

Arasuthabium americanum Nuti-Walirothidla Arceuthoba Arctium Lappa L. Phyllosista Lappas

Septona Lapparum Arethum minus Bemh. Puscuns Bardanse Septonis Lapparum old sessa Penlephora cineros

Pistillaria mronns
Arctestaphylos rubra (Rohder & Wilson)
Fernald
Processatoum apareum

Puccinastrum sparsum
Arctustaphylos uva-urai (L.) Spreng.
Chrysconyna Arctustaphyli
Exobandium Vaccina
old Iesura Sobatropenta Vaccina

Arenaria lateriflora L. Puccina Arenariaa Argentinar soc Potentilla Artennisia biennis Wild.

Albugo Tragepogonia Peronospora Artemisias-biennia

##205mu13

Artentisla blemnis Wild.—Con Pincinia atrolusca oli stem Leptospharia pyrenopennoldes Ophiebolus asuminatus O. fulgidus

Artemisia camporum Bydo. Poecima atrofusea Artemisia cana Putth

Artemisia cana Puzzh
Puccima Abrinthu
Artemisia frigida Wilid,

Puccinus Abeintiui P millefolii, Artemisis glauca Pallas

Puccania strofusca

Artemisia graphalodes Nutt.

Cylinsicosporium Artemisiae
Puccana Astenthu

P atrofusca Artemisia Porebjana Bosocz

Purcusus atrofuses

Artemisia sp.

Erysapha Cichoracearum

Perencapora sulfurea old stress Phoma nebulosa Anclopias avvisca I.

Accieptas syriara I. Cercospora cinvata Phyliostrota cornuti

Phyliorketa someti
Acclepaa sp.
Colletotnehum funsrioidea

Asparagus officinalis L. cuit. Botrytin cintrea Puccina Arparaga

Asplenium: see Athyrium
Aster cordifolius L.
Cercoscopola cons

Coleosparjum Sol,daginas Pucciona Asteris Boptoria atropurpuroa

Aster ericeides L.
Coleusporium Solidagimis
Aster Incole I.

Coleosporium Schdaginia Entyloma Compostarum Puccinia Asteris

Septoria airopurpurea Aster lateriflorus (L.) Britt. Culcosporium Solidaginis

Aster Lindleyanus Torr & Gray Coscosporum Belidegious Erysiphe Cloboracearum Peccina Asterie Bestoria atropuraires

Aster multiflorus Ait.
Puccina Asteris
P extensicola van Asteris

Aster novae-angliae L.
Colcosperium Schidaginie
Erysphe Cichoraevarum
Puccinia Asteria
Ramularia Asteria
Anter novi-belgii L.

Septona stropurpurea
Aster peneculatus Lite.
Aster salloifolius Ait.

Correspondent Selidaginas

Anter tetericus L., cult.
Septonia stropurpures

Anter umbellatus Mill.

Colespondent Solidarinas

Aster upp., olf stems
Danysupphs suffures
Leptospharin dobelum
Montamella Heberoidis

Ophroboius fulgidus
Phialea cyathordea
Astragalus adaurgens Pall
Physaloguras aurantis

Physalospora aurantia Astragelus alplrus L Astragelus bisulcatus Gray Physalospora magnetoma

Astragalus canadamin L. Perencapota Astragas. Astragalus gonintus Nutt. Physalopura aurunia

Physicipus auranta Astragalus poctinatus Dougi. Phona Astraga. Physicipus aurantia Septoris pasemophia

Athyrium Filix-femina (L.) Roth Urestropeis Struthiopteridas Atriplex sp. Cercopura dubia Purrina Aristidas

Avens fatus L.
Claviceps purpares
Helimithospecium Avenae
Fuzcinis coronata
P gramins
Pythasis arzeroomangs var. canadécase

Ustalago lavis

Avena Hookeri Scribu., calt.

Clavicepe purpurea

Avena suda L., cu.t.

Puecina grammia
Avena antiva L. cult.

Bacterium striafaziena
Clavicopo purpurea
Codetotrichum gramiescola
Fusarium arthrosportodes
F avenacum

F bulbagenum P. bulbagenum var Lycopersion P oxygoonup F oxysperum var aurantiacum

F Pose Distrype stame Helminthosporium Avenao Distrypella decorate

Libertelia betui.na H. programation H. aativoim

Leptosphascia avezaria Olpidaster radicie

Postdomonas ceronafaciera Toruls aloca Pucesna corocata Tremeda lutescens

P STATISTIS Hysterium pulloare

P volution

Septoria Avenas Latingo Avenne

U 1075s old parts: Bullern alka Gelasinospoca cercalia

Lentoschuerra oulmicola Axyris amproprihedes L

oid steese Dipsodyna Elliatt Axales so sult. Exobasidoum Vaocutus

Beckmanna Syzigachne (Steed.) Fern.

Collesotrichum graminicola Ervalobe gramoros

Potenia coronata P graminis Untilago stri.formis

Berberis squifolium Push, cuit. Percents gramina

Berberis Thunbargii DC., cult. old stees Cuturbularus Berbendia Berberia sulmaria L. cult.

Phyllostypta Berberidin России атального

old sterse Cucurbitaria Berbendie Leptosphaena Berbendis

Phome beeberidella Beta vulgaria fo, cult. Crerospora betsools

Phonen Retac Phyliostota Boine

Heta vulgaria var cicla I., cult.

Peroncesora Schaehtii Betule albe L. var pepyrifera (Marsh.)

Speck Cladosporium cadarum FORDER CORRESPONDE

P amierius Olorosporium Betalas-papyriferas Meianoonium parvulum

Phyllacticus corylea Phyllosiscia Betulae

M005-1/4

Betuin alba L., var papyrifera (Marsh.)

Sentona betuleeda S. Boycei tuner Confotheolum betulunum

Melanconis decoracents Melastonium parvulum

Stagonosporium Fautreys

back: Hypoxylon multiforms

Lachnum breeder Nuemateba nutleata Penns vinteccofulvine

Всекта врошаль secod Arachnopesias aurelia Calocera correa

Corticium pellaralare Daedales unicolor

Payotes canadenan Fornce remarius var. nigricaru Hesetium cytcinum

Hypotheus coriarius H paddofu.yus Lancophaeria ovusa

Leicegrapha francona Lentinus cocluentus Leantes betolins.

Merchas trenslinsus Panus rodin P styntarus Parina burpida.

Persophora surantiaca. P rineroa Phiebra strigosomonata

Pieurotus petaloides P scrotinus

Pelyporus albellus P arenlarius. P betulense

P nidulana P pargamenus Porothelium fimbreatum

Behicophylium commune Stoochartonen nulcherringum 8. apptentrionale

Sterman fraciatum 8 Inregtum S. norraream S. rugueiusculom

Tulamelia Eithleriana

Betule alba L., var papyrifera (Marsh.) Brownus ciliatus L. Puccess coronata, and considerate and considerate

Betula sp.
Malampearidium betulmum.
Malampearidium betulmum.
Misraepharas Alm.
Fonos pravols
Fonos pravols
Posarram eulmorum
Posarram eulmorum
Posarram eulmorum

Bidens cerrusa L. F. Poac
Septocy-indetum concenitant Helmisthospocium Broms
Bidens (rondosa L. Nigrospom spharita
Cerroccord universa production Prihama arthosomaros var. canadessis

Plasmopers Halstonii Septoria Bromi Septory.adrium monomutana S. bromigena Sphaerotheca Humuk var folkjinės old stems: Leptorphieria cukuffraja

Bidens glaucescens Greene | Presspeen Harknessi | Sphaerothees Humsh var fullgings | Sphaerothees Humsh var fullgings | Bidens wilgsta Greene | Bromus latightunes (Shari Hitche.

Bidess vulgata Greece

Septocyladrium concentians

Bittum: see Chemepodium

Brownus Fortest (Coulter) Nash

Fromus Fortest (Coulter) Nash

Fromus Fortest (Coulter)

Beletus app.

Bupedosaum chryscopermus:

Epocodaus grandis

Boutslous curtiprendula (Michz.) Torr

Boutslous curtiprendula (Michz.) Torr

Paccinia rubigo-vera var agropyria

Boulations generates (B.K.) Leg.
Puccinca votano

Boulations generates (B.K.) Leg.
Puccinca votano

Boulation digestachys (Nutt.) Torr
Heliocitheoretium 20.

Personne

Personne

Clavicepe purpurea

Paccinca coronala.

Personne

Braseica arveneta (L.) O. Kuntse P. rubsgo-vera vat. Agropyri
A-bugo candida Braseicas Puccious grammas
Permanena Braseicas Puccious grammas
Permanena Braseicas Braseicas Braseicas su, odd fasters

Peronospera Brancose
Brassica jursess (L.) Cossea
Album caudida
Scodaria finicola
Scodaria finicola

Albugo candida
Peroncopora Brasacas
Branica oleracea L. var botrytis L., cuit.
Alternaria Brazacas
Phylichora gnainrias
Posicios cerentia.

Alternaria Brazzoase

Bacilha carotavorus

Phoma Logam

Pransica nieracas yar mantata L. cult.

Pransica nieracas yar mantata L. cult.

Pransica nieracas yar mantata L. cult.

Altereana Brasicue Calernagrustis inexpensa Oray
Bacillus earoloverus Epiclius typhina
Functiona longato Puccina occuzata
Phoma longato Calennagrustia ap.
Calennagrustia ap.

Reinotteens coam

Selevolinis seleviciorum

Brassica Napobrassica Mill., cuit.

Practica sumbisma.

Rhitottenia Solini
Brassica Rapa L., quit.
Alternatia Brassica
Alternatia Brassica
Celliatpolius chusensia Nees, cuit.
Celesarpus Autorium L.
Celesarpus Celliatpolius chusensia Nees, cuit.
Celesarpus Budantini

Fusarium colzocrum Fusarium concagnis
Puccinis extannis
Puccinis extannis
Septoris Callistephi

Cultha nelustris L. Erwinbe Polygoni Purcing Calthan P rauthloom Camelina microcurpa Andra.

Altrogo candida Percnospera Camalinae Campula pellucida (Scud.) (insect)

Empusa GryLa Campanula sparinoides Fursh Septoria Campanulae

Cannabie sp. oult Sectoria Cannabia Cantharellus sen Aguricaceas

Cannaidas: no Carrelalia Capaella Buren-pasteria (L.) Medic.

Album candida Peronosnora parasitaca Caracana arborescana Lem Fusariom avenaceum

F Solaro Septoria Caraganao branchez Camarosperium Caraganae

Cucurbitaria Caragonae Polyporus taliniferus Studye from.

Tuberrusana vulgaria Carex aquatites Wahlenb.

Cintractsa Carreia Carex atherodes Spreng.

Potentia Caricia-Shepherdiac Carea Douglassi Scott

Pupcinta atrofunta Caren durifolia Builty Puscinia Cancia yar groomlanata.

Cares filifolia Nutt. Cintractio externa Purcines otrofuses

Cares gynnerates Wormak Canax haliombile Mackensia Cintroctio Caricia

Carez lenuginosa Michy. Cintractio submelusa Puccinia Caricio-Shepherdiae

Carey Ryansa Y. Carex obtuenta Lij. Cintractia Caricia

Caray transpartitie Booth Puncima atrofusna Cerex Sertwells Downy

Putettus extensitola var Osuotherae Carex Sprengelii Dewey

Puccinia extensocia var. horraciata

Carex aubstricts (Kukenth.) Macketson Cintractia Cariola

Poppin a Carina-Shepherdina Caren varia Muhl. Asoochyta teretiuscola

Carez vesicaria L. Phyllostecta Caricia

Purcinsa Carizia yar urtseata P Caricia-Shenheediae

Stagoosspora albesoens

Carex sup Cercospora Caricia Purcinia extensicola var Asterte

P sytomorpholo use Belidestate dead parts Cryptosporium nubilesum Metaechaeria mmana

Permophora Samburi Castillaga coccinea (L.) Spreng. Ramularia corcenea

old stees. Ophioborm acuminator Castillaga sessiliflora Parch Puetinia Androsoguma var. micronuneta. Celastrus scandens L.

Phylastima corylea. Physicaticta spermoulos Rumularia Celastra

branches: Cytospora ambiena Diatrype Coastri Dinemasporium Robbaton Former noutellatur

Hysterium mardens Neetria comabarina Potyporus tulipuferus Sphaeropus propullana Valon amboons

Chaetochlen: see Seteria Chamsedaphne calveuleta (L.) Moznch Chrysomyza Cassandrae

Chacomorium Chamaadanhaia Venturia milehella Chamasperion: pec Epilobium

Chamasareas no Euroborbia Cheirlola: see Erraimum Chenopodsum album L.

Cercospore dubia. Perencepora variabilis Puccims Arietidae Stapanomora Atriphete

Urophlyetis pulposa eld stems: Diplodina Ellisti Phoma Isosissima.

Chenopodium capitatum (L.) Asch. Stagonespora Atriputis

Chenopedium glaucum L Urophlyotia pulpoes

Chenopodium hybridum L. Stagonospera Atnesses Chickens

Chickens
Aspergillus fumegatus
Rhisopus rhisopodiloruus

Chimophila umballata (L.) Nutt. Mycophaerdia chimaphilina Chrysanthomum ressimum Ramond, cult. Senteria chrysanthomilla.

Chrysanthemum sp. cuit. Erysphe Ochomoserum Chrysopale birautisalma Grecoo

Puccina Stipae
Cicuta occidentalis Greene
Puccina Cicutae

Urotayoes Scirpi Circasa alpina L. Puccina Circasa Ciraium arvensa (L.) Scop-

Albugo Tragopogonis Selerotinis seleroticeum Sectoria Circii

eld stessy Mollisia atrocinerea Ophiobolus perphyrogenus Phiales cyathories

Phiales cyathories Pyrenochisete erysiphories Cirelum Fiedmenii (Rydb.) Arth

Percentain Ciroli Uromyces Junei

Circium magacaphalum (Gray) Cockarall Uromycos Junei Circium muticum Mista

Circium muticum Micix Fecunia Circi Circium undulatum (Nutt.) Spreng.

Puccima Cire: Uromyces Jazel Circullias vallencia Schrad, cult.

Trichothecium roscum Clavaria spp.

Helmuthosphastia Clavariarum Booleooteebum Clavariarum Sporodima grandia

Sporoding grandle
Clamatic liquisticifella Nutt., native and
cult.

Cercosposa squalidula Cercosposa squalidula Cercosposa squalidula

Cynadrosporium Comunicia Puccinia robago-vera var Agropyri Septoria Cientatolia Clintonia borenia (Ait.) Raf.

Clintonia borealis (Ail.) Ri Puocana wooomajalis Collomia: see Gilia Comandra livida Richards. Comandra livida Richards.

Puccinis Comandres
Comandra pallida A. DC.
Cercospora Comandras
Crossartium Comandras

Comandra pallida A DC.—Con.
Puorava Andropegones var pustulata
P Consendras

Comundra umbellata (L.) Nott.
Puorina Andropogono var pustulata
Comazum, em Potentilla

Convarum: see Potentilla Convolvulus sepisum L. Pucciria Convolvuli

Razmaria sepum Septora Convolvali S. flagrilario

old stems Leptospiaseria deliolum Putiliama micana Truncerona subtile

Caprinus app
Chondromyces crocatus
Captis triflora (L.) Salisb.
Rectoris Cantago

Corallorrhina ap., old sterm: Couletotrichum Dematum Cornus canadensia L.

Głomeruseria Cotto:
Phyllosticta Cortu-eatadereia
Puogota porphyrogenida
Septoria consebusius
Cortus instellurea A. Acia.

Cornus instolures A. Nels.
Phyllsetina corples
Beptoris cornutuls
braceles Cryptosperiopsis cornus
Vasa cornuta

Cornus stelonifera Michx Phyllactinia coryvea Septoria cornicola branches: Cryptosporiopsis commu

Disportin alborarus
D sees
Didymosphaeris dipiospora
Lasimplicario caprecetta

Leptosphaeta borealis L. region Lophiostoma prominent Myansporium nitidum

Ostropa cinierea
Patellaria olaviapora
Phalea vulgaria
Phenouvra mentulana

Roselluia mammiformie Vaisa ambiens V comma V coronata

Corydalis aurea Willd Corydalis glauca Pureb Peropospora Corydalis Corrbus americana Walt Botrytia emerca Gnameurille Corrie Sentoria corvlina Corylus rostrata Ait. Gleensperium Coryll Guamoniella Caryli

G. Cory a var circinsts. Phyllastima corylea branches: Diatrype albencumosa

Corplus sp. Ccyptosporetta anomala Murcophages Alm branches Cutirula turgida Cenangum furfursceum

Cypheia fassiculata Distryptila Fronti-D missourieness Hypoxylog foreres Metamoracous corrilion Nectria robicuma

Selenm anomala Sphareoneia Carvin Streptotheix fuses

V legoostomoides Cotomeaster ap. cult., bronches Cururbeteria economia Valsa ambiene

V Jesseestorna Cratangus chrysocarpa Athe Gymnosgorangissa Betheli

C clavaniforme Mores. Disporthy Cratego Continuous an

Cymptonovanaum clayines G globosses Phythosteta Cratego

branches: Dustryps alboproiness. D. ategma

Distrypelia quercina Dictydisatballum plumbeum Fenertella phaceapera

Behasonden ocuspecture. Sphaeropes Masseum Recodemium compositum

Thyridaum canadence Valsa ambiena V investance

Crenia glaucella Rydh. Puccines extensecta var lucraciata Crapia runcinata (James) Tore & Gray Purconta extensionla per horacista

P Hierard Ctemucha virginica (insect) Empusa GrytliCucumia melo L., cult. Septoria Cupurbitansarum Cucumis sativus L., cult. Barillus teachaichilus

Cladosporium queumeriaum Fusarium Equaeta

Perudomonas inchrymans Scierot.nia scierotorum Culworms

Tarichium megaspermum Cypripedium parviflorum Salisb. Poeciais Cyuriooda

Customberia francilla (L.) Born). Hyslopsom Pelypodii Dactylia stomerata L.

Claviorus gurpures. Possinia ammuno Dandales confragosa (Bolt.) Fr

Casesum polyporasum Dahlia sp tult FORMYGIN AVERAGEUM

Seleratines spiecotrorum eld sless: Acrostalogmus monobartous Dasystenhana um Gentiana

Daucus carota I... gult Pseudomonas carotae Schorotinea seserotrorum Detphinium spp., cult.

Erysiphe Polysoni Psendomonas Delphini Rhizoetonia Solazii Belevotium Delphina Deschampsia passpitosa (L.) Beauv

Possinia ceronate. P erominus Dianthus burbatus L., cult Alternatio Disaths

Dianthus Carronbellus L. cult. Deotnyors caryophylitnas Dianthus so., cult.

Heterosporyam echinulatum Distrype spp. Nectria opirphasma

Dibotreon morbosum (Schw.) Thess, & Syd. Spoontstehoon ramatteren

Dierville Lonicere Mill. Ramulane ambrina Sentoria Diervillan

Dimorphothese to call. Albuge Tragenogonia Dissoteira carolina (L.) (tascet)

Empusa Grylli Distichlis stricts (Torr.) Rydb.

Phyllachora gramous Puccinia Aristidas

Bodecatheon pauelflorum (Durani) Greene Propeints Ortonia Uromyces acuminatus var Steironematis Doellingsria: see Aster Druba so.

Puccinia Dmbac Dresposphalum parviflorum Nutt. Physicatieta Dracocenhalt Septoria Dracocephalt old stems. Leptosphaeria doliolum

Echinocyatia lobata Torr & Grav Sentoria Sieva Elassynus angustifolia L.

Puccipia Carreis-Shepherdian Elacagnus argentes Purch Cerecepora manitobana Proceims Carisin-Shardwordian

P coromata branches: Copurbitaria elementa. Fusarlum avenaevom

Penjorhors, gremes Valsa ambuma Elaphrus ep. (Insect)

Laboulbenia flagellata Elsocharia app. Clavicens nurrouns Paprana Eleocharidia

Elemus canadensis L. Claviceps purpures

Helminthosporium sattvum H. Tritici-repentia Phyllachora grammat

Puccina coronata P grammes P montaneous Urocyatia Agranyri

Elymus curvatus Piper Сівужеть питоковь Россіна демили P montanensis

Elymus dahurteus Turcz. Clavinene restructes Poseinia graminu Elvenus diversiplomis Scribn. & Ball

Proceinle rubigo-vers var. Agropyri Elymus glaucus Burk., rult. Puocines gramattin Elymus inpoyatus Beal

Clavieros corrogea Elymus islunus (Ramaley) Rydb. Procinca reentanensia

Elymus Macounti Vassy Clavicepe ригрима Puccinus gram.nss P rubigo-yers var. Agropyri

Ustilago Lorentsiana U. striiforms

Element wirefulcus I. Phylinehore graminis Puositua grammis

Elympa sa Exichlee typhins Entoloma: sco Avaricaceae Entlobium adappeaulon Hansic

Procince vagane vac. Enilehluteteageni Puccinisatrum pustulatum Ramularia punotiformis Sphacrotheca Humali

Epilobium angustifelium I. Monocharte Kriegeriana Puttinia extensicula var Osnotheras P gigantes

Pusciniastrum pustulatum Barrularia enconsportados old stome Pietillaris typhuloides

Equisetum sylvaticum L Titacospora detespora Equipment old stess Perzella mouiline

Erigeron canadensis L. Septoria eraperontea Erigeron sp., old steme

Ophiobolus fulgidus Eriogonum flavum Nutt. Ertophorum angustifolium Roth

Puccina angustata Erysimum chairanthoides L. Perenerpera Ecyatra Puccine Anatadae

Ervainbacene Cicirmobouse Cosatii Eunstorium nurnorsum L. var. maculatum (L.) Darl.

Puccina Eleocharida Euphorbia glyptosperma Engelm, Euphorbin serpyllifolia Pere. Uromyces prostraneno Eutype en

Nectra emechneria Falcata ace Amphicarna Festuce elatior L. Свачісеря ригригев

Puocinto gramitus Festuca Myures L., cult. Puccine complete Festuce ovine L

Pasterna Crandalo. Figur elastics Roxb., cult. Glocomorium an-Filire see Cystonteria

W11-Empues americans.

E. Munran

Formes ann., old Frazinus pennsylvanius Marsh., native and Hypocrea oitrina mit.-Con. Melanespora lagenaria namericals. Fracaria glauca (Watson) Rydb. Discons artecress Marasomea Potentillae Ramulana Tulamen Volutella ciliata Francia vauciflora Rydb. Marracoura Potentillae (Borkh.) Sare Fragaria top., native or cult. Phylicstiets vindes Bouyta cinerea Piggotia Fraxim Ramularia Tulamet Puccinus peridermospora Sphacrotheca Humqu

Uncipula parvula Entyloms polysporum Evantous canyonatria Britt. Pigeotra Frazina Galeopsis tetrahit L.

sood Poris Vaillantii Franinus pennsylvanius Marsh., native and Galium boreals L. Hamtaia borealis Phyllostetta viridia

Pizzeotas Praximi Poesma peridermiospoca Septoris Bossy's Armshew Botryconhaeria fulurinoma

Camarosperium Orn. Cenangium populaeum Corticium argentatum Currevella Bisbry

Dinemasportum Robustne Eutypella Vstor Fonazium asteritium Romissium antiquum

Hysterographcom Frazini Looksostoma trisepiatum Outropa einerca Percephera consrea

Sphoeropeis fertilis Sperodomium compositum. Vales ambiects V frazimna berk. Cortieium crustaeeum

Distantialium plumbeum seed Cabrium position Chaetomella ates var lignocola. Chlorosplemum aeruginnseum

Hypochnus umbrinsas Mecinia ciperca

Perceptions incurnata P ludovituma P rubere P Sambura Penchaspa quadrata Pleurotus applicatus

P limatike Propellis fanines. Rosellina medullaria someone Colletotrichum Dematium var.

fallen leaves: Pistiliaria clavulata Francisco partecelescoles par lancaulata

Gaillardia aristata Puzzh, native and cult.

Erysiphe Galeopaidis Septoria Galcopedas

Peropespera berealis Phoma efficition Placoephaeria punctiformie Paccinia rubefaciens Septoria psilostega.

Gatium trifidum L. Puccious punctata Galtum triflorum Michx. Pincombaccia nuncidormes

Pseudonorina repanda Puocizsa punciata var troglodytes Septoria pailostega. Gallum sp. Ervriphe Cichernovarum

Gemphocarus clavatus Thorn (insect) Emmusa GryDi Gaultheria procumbens L.

Venturia Caultherice Gaura coccines Pumb Uromyon plumbarius Gentiana affinia Grisch.

Puteinia Gostianae Gentlena Amarella L. vor scuta (Michx.) Heeder

Puccinia Halenmo Gentlana Andrewski Grisels.

Anterconn Gentinase Cantiana Intervuota Green PROPERTY CONTACTOR Gentiana strictiflora (Rydb.) A. Nela, Uromyces Gentanae

Geranium maculatum L. Plasmopara Guazus Goum mecrophyllum Willd.

Sphserothrea Humuli

Geum strictum Art. 10eroceporella Gei Cylindrosperium Gei Peromospora Gei Phyllosteta decidus Schaerothesa Humuli

eld Icanes Discosia arteereas Gauss trifferum Purch Peronospera Ges Rasinalisma Ges

Urocysta Waldstaman Gilia linearis (Nuit.) Gray Phytophthora parasitica Septoria Giliae

Spharrotheca Kumati Uromyces asuminatus var Polemonii Gladiolus sp. cult.

Basterium gummusudane B. marginatum Pencellium Gladioh Selerutum Gladioli

Selerutuan Gladioli Urocyata Gladioli Glaux maritima L. Paccina Anatidae

P Distabildia

Clyceria grandia Wateca
Assocityta grammoola

Clavicepe merocephasa Ustilago longistima Glycine man Merr tult

Pungrum Sotani Pseudomonas glycinea Glycyrrhiza lepudota (Nutt.) Punh Erysiphe Pangom

Septona Glycyrrheae Uromycee Glycyrrheae Godetia eo. cud.

Possinisatrum postulatum

Saprolegnia parasitica Grasshoppers Empusa Grvi).

Bhitopus rhizopodiforma Scopulariopsis brevionalio Grindelia percania A. Nels Puotana Grindeliae

Proteina Grindelise

Grindelia aquarrona (Pursh) Dunal
Erystphu Cichoracearum
ald sterer. Orbiotelia filimetria

Gyrimus lugens (insect)
Leberibezsa Gyrindarum
Halenia defleza (J. E. Sm.) Grissb-

Cereospora Haleman Haderpeates: see Ramunculus Madanatus annestranum (Mi

Hedysarum americanum (Michx.) Britt. Hedysarum borsale Nutt. Hodyszrum einersseens Rydb Uromyess Hodysar-otseun Helenium autumnale L Sentona Heleni

Helienthus ennuus L., cult. Botrytis vulgaris Eryaphe Cichoraceatum Plasmopara Halatedil

Puccina Helasaths Selevotana selevotarana Septoria Helasaths old stave. Dasyacypha sporotricha Leptosphaeria donolom. Oedocophaeria donolom.

old leaver Didymum analius Helianthus aridus Rydb. Puccina Helianth. Helianthus atrorubana L

Holiankhus divarientus L. Erysiphe Cichomesarwa Halianthus fascicularis Greeno Pascum Helianthi

Hellenthus Meatmillant Schrad Plasmopara Hasteds Prograd Hellenthu Septoria Hellenthu

Helianthus petrolarie Nutt Plasmoparo Halsted : Pucciona Helianthi, Septona Helianthi,

Lromyen Junu
Helianthus subrhomboideus Rych.
Pinamopan Helianthi.
Pucana Helianthi.
Lromyes Junt

Helianthus aubtuberoaus Bourg, Poerion Helianthi Helianthus tuberoaus L.

Ascentyta Compostarum Puetina IIelianthi Septoria Helianthi Habralla mp.

Mycogore estraora Sphaeconemella Helveliae Heraeleum lanatum Michx. Cylindrosperium Heraelei Phyllosbota Heraelei Phyllosbota Hamalei

Phyllostocu Herselei Phyllosteta Herselei Ramidora Herselei ed strese Ophiobous anguillides Heteresthera dubia (Jacq.) MaoM Membranesorus Heterautherne

Heuchera Richardsoni: R. Br Cercospora Heucherse Puccinis Heucherse

Hiblacus asculantus L., cult. Phyllostytta hibecins. Hierachum capadenes Micha Hordeum vulrare L., cult.-Con. Erystphe Cichorscearum Puccints anomale Риссина Витагії P glumarum P gramms Hieraclum exabriusculum Schw Paccinia extensions var hisramata Pythom arrhenement par canadensu Puppings Heener Rhynchosporium Secalis Hisrochice ederate (L.) Wahlsob Scolecotrichum gramous Septoria Passerinii Opiuololus grazzama. Untilago Hordei Риссира девлиния U medians Sphaerella uzzobita Holeus Sorghum L., eult. M nuds. Sphacecothera Sorgia dead parts. Acremouselia atra-Holeus audanensis (Piper) L. H. Bailey, out. C. fumeola Houstonia longifolia Gierto Pirroglaria grissa Dromwest houstoned up Herdeum Substum L. Humubas Lupulus L. Clayloron pursures Reymphe grammer Constatrichum Human Pseudoperoncepora Huma-i Helminthosperium sativum Spherothesa Humuli Ophosbolus gramess eld atem Direcdia Humali Puccines glums rum Hydnacene, old P ersminis Precephora Sambuta P recontamentein Hygrophorus see Agarlescess P rubigo-vera var Agropyri Hypoxylen see, old P rubigo-vora var Impatientia Comothyrium parasitana Rhynehosporium Socal-s Hypogrea patella Sociecotrickum gesmens Hypericum perforatum L Septoria Pesseriou Uromyces Hyperici Ustilago Lorentsuna Hordeym murinum L., suit theris en, cult Rhizortoma Solara Parconin grammia Ironatlens biflora Walt. Hordeum volgare L. cuit. Plasmonara abdusena Claviccon purpurea Puescrua argentata Dilonhaspore Alonasuri P rubigo-vera var Impetientis Erysiphe gramina Irla versicolor L. Function avenuoram Perceipes Trides F bulbigenum P. Monti, ch F bullogenum var Lyconcesses Irin reco., cult. F realmorners Bacillus carotovorus F Equirets Didymelluta Iridia F oxysporum Haterosporium gratile F oxymporum var autantiaeum Ive avillarie Porch F return)atum Albugo Tragopogonas F Beirm Puccins intermixta Iva vanthifolia Nutt. Helminthosponum geniculatum Bandscehora Kellermans H. sativum H. teres Scierotinea seleroteorum Juglans nigra L., cult Heteroenoroum Avenac Morrostroma Juglandas Laguna radicicoa Juneus ster Ryth. Oleiduater radical Junears balticus Willia Ophionelus gramous Juneus Dudleyi Wisgard Paradomonna atrofaccena

Juneus filiformie L.

Thomasons June

P. transleous

P translutens yer, unduloss

Juneous longistable Torr Juneus tenuls Willd. Uromyoes Silphii Juniperus communis L.

Gymnosoorangiam glavium Stigmates Juniperi branches: Penspubors unda Applearus barizontalia Maccah Gymnosporangium comiculara G suventeecens

G elobosum Lophodermium juniperinum brigs: Hysterium acuminatum Kamehoa deformata

Juninerus elbirica Burged Gymnosperangium třavípes Jumperus en., obl mase

Corticium nellimiare Perusphora Sambuei Koeleria cristata (L.) Pera-Popeirus, Koesestan

P monoica Lacintaria, no Llateia Lautarius app.; sec also Agaricaceae

Hypotoyees reselius Peckeella viruda Verticilium Lectari. Lactuca pulchella (Purch) DC.

Brouse Last rose Ovelaria Carleton.

Puccinia extensicola var bieraciata P minuseemes Lastern setion I. cult.

Bermin Lactuese Puccinia extensicula var. heraciata Selerotana nesecctionum

Laportea canadensis (L.) Gaud Ramularia Urticas Sentoria Urticae

ald stems Caliona functiones Cylinderealla Urtima Phoma nebulosa Pyrenoperita compressula

Lappula deflexa (Wahlenb.) Gareka Erysiphe Croboracearum Ramularia Lappulne

Lappula echinete Gibbert Cereoseptoria Lappulae Brystobe Cicheracearum Peropospers, Echinospermi Property a Aristotea

Laris Incision (Du Roi) Koch Meampeors Birelowii brouches Looblum mytilinum

Pemophora alutaria

Earthwese maritimess (L.) Bind Septoria Astragali Lathyrus ochrefeucus Hook

Sentoria Astragali Uromyren Fabae Lathyrus adoratus L., cult. Bacellon Lathers

Rewinhe Polyment Fusarium Equiseti F Solani var Martil Microscherra diffusa Rhizoetoma Solani Lathyrus venesus Muhl.

Cercomora Lathyra Erwiphe Polyzoni Septoria Astragali Unomwood Paban old News Leptosphaeria delinium

Lecentum to (intect) Coedyoops clavulata Ladum smanlandicum Onles Chrysotovas Led.

C. autorolis Elsinge Ledi Exobesidium Ledu alassa: Cirthrin Incton. old lover Louhodermoum sohaeroiden Lentinue sp see Agaricaceae

Leontodon: see Taraxacum Lepergyrea: not Shephardia Landdings anetalium Willel Albugo candicia Perorespore Legisla-virginia

Septoria leméscela Lanidium Deals L. Cercospora Bizzoneriana Landdium Flatchast Rvdb

Puccinia Aristotae Lenidium sativum L. cult. Peromospora Lepidii-sativi Lantilon, see Ericeron Listrie nepera (Michx.) Groune Puccinia Leatridus

Septoria Lastrida Liatris liguliatvila (A. Nels.) Rydb. Lintria manetata Ecok. Possinia Lastricha Lichena

Illosporium roseum Selecotrum lichemicola Lillium tehiladelphocum L. var andinum Propertie Sportbole

Lillium se, cult. Botrytin coperes

B parasities

Linnace borsells L. vaz americanu (Forbus) Rahder Halbaniels Linnaces Venturia Dickon Linum Lewisii Punh Linum rigidum Funh Makumaces Linu

Linum usitatissimam L., cult. Pusarium Lim Malampsora Liu. Poyspora Lim

Pythium deBaryunum Rhizotenia Solani Lomicera senadensia Marsh.

Glossovalaria Loniocras targo: Ceriospora manitobiensia Loniocra glaucascena Rydb Carcospora attássas

Carcospora antipus Microsphaeta Alm Septoria Xylostei Londosva Sullivantii Gray

Cercospora sutireares (ray Cercospora antique Microspora Alm Lonicera tatarica L., cut. Clemenuaria Lencomp

Glomerozaria Lonzozae M.orosphueca Alm tange: Sphaszopsia zonata

Luzula campeatria (L.) DC var multiflera (Ehrb.) Celak Puccinya observara

Lychnis chalcadonica L., sult Phylosticta Doanth Septoria Lychnidis

Septoria Lychnedis Lychnia Hangeana Lemure, cult. Septoria Lychnedis

Lychnie sp. cult. Physiosista Lychnidia Lycopernicum seculentum M.II., cult.

Alternana Solani Bactecium michiganense Clauosporium fulvum

Classesportum fulvum Cortecum Botam Fusarium Equacti F Scirpt var filifurum Nurrospora sobastica

Phoma destrotiva Riusotonis Selani Septonia Lytoperaiti Lytoppus lucidus Turcs, var americanus

Gray
Puccings angustata
Lygodesmia juneoa (Pumh) D. Don

Purcinia extensicola var. heraciata P Gradeliae P Stipae

Lyalmachia thyreidora L. Puccins Lummas Mulanthensum canadense Dosf. Cercospora subsanguinos Procesas amphantos

P. semilis
Uromyos scuminatus var magnatus
Malva rotundifolia L.

Malva rotundifolia L. Cercospora Malvarum Puocina Malvacearum Santosia malvina

Malva sp. sult.
Proctors Malvacearum
Malvacetrum coccineum (Punh) Gray

Malvastrum coccineum (Punh) Gray Procena Shorardisna Mans nee p. 141

Mans see p. 141
Medicage estiva L. cult.
Ascochyta Medicagins

Ascotyta Medicagins
Fusarium averneeum
Peremagnes aastivalis
Pesudoperiza Medicaginis
Pesudoperiza Medicaginis
Pesudoper Trifolii
Pyresperius Medicaginis

Pyropopeuro Medicaginia Scierotinia scierotici dia Uromyces striatus var Medicaginis eld stene Humarina tentacea

Oedocephalum glomerulasum Phalin cyathordes. Melanoplus bivitatus Say (insect) Melanoplus infantalis Scud.

Melenoplus infantalis Scud. Melenoplus mexicanus Saus. Melenoplus packardi Srud. Empusa Gryth

Melilotus alba Den, cali, and escaped Gercoppora Davisa Funarium avensocum P. Salam

F Solare
Plenodomus Melilote
Preprioperata Medicagimo
Sia recompra Melilote

Melilotan officinalis (L.) Lam, cult and escaped Stagencepora Meliloti

Meliletus up cult.
Funerum Equiseti
F Pose
F Scirn var acominatum

ald stems Ophiobolus perphyrogenus Phistos cyathordes Pyrenophiens colvessens Scopulariopus brevicaulis Manaparmum canadesnas L.

Cercospora Menuspermi Entylums Manuspermi Phyllaetista abortiva old store Diplodia sarmentorum

old stone Diplodis sarment Phoma Mecusperum Sphaeropsis Menoparus

Valsa Mecispermi

Mentha arrenais L. var canadensis (L.) Briquet Erystabe Cichersoesrum Remularia variate Menths elabrior (Hook.) Rydin

Erysiphe Galcopaidis Pisoninia angustata P Menthae Borny, aria roznih coda Septoria menthenola Menths up., aid siess

MoLuis atroomers Menyanther trifoliata L. Physoderma Menyanthan Senteria Manyantha

Meriolia see Ospothera Mertensia peniculata (Art.) Q. Don Erysiphe Cichoracearum

Micrampellar acc Echinocystis Minoulus ringens L. Sentoria Mirrolli Mitelta nuda L.

Puerina Heurberas Moshringin; see Arenaria Meldavica 100 Dracocaphalum

Monarda fistulosa L. Manarda manthasfolia Booth Puccina Menthac

Monoleols Nuttallians (Rosmer & Schult.) WASAGO Albugo Buti

Mosses Cychells rulests C. muscigens. Solerotum Muscorum

Musecular Chaetoelad um Brefeldis Pintocenhalia Frommana

Muhlenbergia cuspidata (Torr.) Rydb Phythechean gramman Musea domestica L. (house fly)

Empues Museae Fusanum Pose Myrica gale L.

Creaartium Comptense Ovularia destructiva

Nebalus, on Presention Naumbergia, see Lysimachia Nerratorias

Harposporium Angullulae Nemeric lasioneuron (Hock.) Rvdb. Puccinia amphigena Neslia paniculata (L.) Deer.

Albugo tandoùa Cercosporeila Nusine Norta: see Stermbrium Nymphasa advena Ait. Ertyloma Nymphaeae Phyllostiets fatiscens old leaf. Sporobolomy ora reasua.

Genothers blennis I. Eryaiphe Polygoni Peronospora Arthuri Puccinia extensicola vac. Omotheras

Sectors Denotheres Genothera stricosa Rydb. Peronospora Arthuri Obgoneuron see Salidago Onosmodium oscidentale Mackenge Puocinia roboze-vera var apporvota

Oppropals aspecifolia Mishr. Phyllschora graminu Puccinia pyamasa Osmorrhuse longistylis (Torr) DC.

Cereomora Osmorrhusae Phicospora Acgopodia Puccinia Pimpinellae old stess: Colletotrichure Dematium Oxytropu Belli (Britt.) Pilitmo

Sphaerella Astrogali Osytropia grazilia (A. Nols.) K. Schum Uromyom punctatus

Padus see Promus Pasonia officinatis Rota, cult Botretin cineres. B. Psequine

Claderporium Precuas Pasonia in rult Phyllosticia Commessa Septoria Pacomao ald stems Phoma Pagomag

Panicularia soc Glyceria Panteum wilingsum L., calt. Secondarium Paneri miliaces Permassia paluetria L. Passarea oforingon

Parthenocussus scc Paedera Postinace extrus I., cult. Cereceporeda Protunese Cylindrosporium erescentum

Ramularia Pastinacae Seleccionia aelerotioromo Paullius, not Aguricacese Pelargonium zonale Wilid. Botzyta einerea

Pythium deBaryanum var Pelargene P altenues Pentatemon acuminatus Dougl. Puerina Andropogonia var. Pentsternoma

Sentocia pentatemonicola. Pentatemon albudus Nuth

Pentatemon criantherus Pumb

Pentatemon nitidus Dougl Puccinia Andropogonia var Pentstemenia Persicaria: see Polygonum

Petalosternum candidum Michx Pareiras Andropopuna var Opahrychidas Synchytrium aureum

Pataloatemum purpureum (Vent.) Rydb Puntina Andromononia var Opobrychidia Petalosternum oligophythum (Torr.) Rydb. Uropyxia Petalostemona

Petasites palmatus (Ait) Gray Puccima ocagiomecuta Ramuaria Variegata

Stagemespora Petastudas Petasites sagittatus (Pursh) Grav Phyliostyta Petautidia

Petunia hybrida Vilm., sult Erysiphe Cichoracearum Phacella Franklinii (R. Br.) Gray

Possinia rubigo-vers var. spectypts. Phalarie arundinacea L. Claviceps purpurea

Cylindrosportum Phalaridia Postinia gramoros

P sessilis Pythium arrhenomanes var canadensis Rhynchosporum Seculis

Phedaris cenariensis L., cult. Proctina grammes

Phaseolus vulgaris L. cult Colletotriebum Landemathannum Fosarium houlect.

F Solani Pseudonnonas Phaseolo Phleum pretense L., cult. and exceped Claverens mercocrosala

Ecverpho graminos Hetenomoon, m. Phiel Puccine gramina var Phici-pratence

Pythoum aerbencenates vac canadensis Scolecotrichum gradunis

Catriago strudorma Phlox Drummondti Hock., cult Sentone divarrente

Phlox Hoodii Richards. Poseinia Douglasii Phlos sp. colt.

Uromyces acuminatus var Polemonii Phoenix canarierata Chabaud, cult. Graphiols Phoenicis

Phragmites communis Trin Hadrotzehum izzoare Naroeladium arozdinaceum Ромения Маспилана

P Phragmetes stesse Graphyllum mantobiense Hendersone arundinseen

Phraemites communia Trin.--Con.

Lonbfostoms Arondinis Molloia arundinacea

Papulana sphaecosperma

Physalls beteronhylla Ness Poseina Phytandia Physalia lanceoleta Michx

Alternaria Solani Entylome sentrale Physalla virginlana Mil-

Puttines Phytosodia Physostegia virginiana (L.) Benth

Septoria Physiotegiae Piosa canadensis (Mill.) B.S.P. (P. giovos) Chrysomyna ledicola

C Pyrolac Melarunecella Cerantit accor. Hysterium acuminatum

Schinggylon enpirenda smoot Finnes ninucols.

Hypochnus fumosus H. robegionsus Polyporus ammitist

P Saloweinstwin Ports candidissims

Pices mariana (Mill.) B.S.P. Chryscowyza Ledi

C. Jedicolo Melantpaorella Cornetts Picea spp.

swigs: Desyroypha arida. Nortra encurbitula bark Badhamia populina Pentophora preema

Stereum sanguinclentum secol Conjonhora avida

C. bystoidea C. cerebella C. olivaces. C. suffocata

Corticium a.bostrammeum C. Berkeleyi fl. fermeteatum

C. pelliculare C auboreomatum C. VEGUE

Cribraria dictyestes Didymum melancanermum Pomes Pins var Absetis

Hymenochaete tenus Hymochnus coriarius H pannosus

H. sponstosos var spin/ferus

Lopbium mytilinum Memilios aurena

Pices upp.—Cos.

Pemophora alutaria.

P carnosa

P gisbulcas

P livida

Physicum nutans conse Ciboria rufofusca eld nacelles Helotium sulphuratum Pliebelus su.

Bynesphane nodorus
Pitsus Bankalana Lemb.

Coleosporium Solidaginia Cronartium Comandina C. Comptoniae Hypotermella ampla

Leptostroma Pinnstri Leptodertmam Pinnstri tee Walrothuells brancies Dasyntypha Pini

Maraemus campanellus bark: Cociophora hysosedea C. Kalmuse Cortacum botsysodeum

Corticum botryodeum C. vagum Patinella punctiforms Peniophora cinerca

Peniophora cenerea Tremella sacci-orina var foliacea socci: Certarium pelliculare Laucophornia ovina Lophornia voytilinum

Lophess trytilinum Hypochtus canaden H eccinosporus H funtatus

H ambrinus Merglius sureus M (ugax Pachybasium pyramulaus

Pachybasium pyras Pensophora cremea P glebulosa

P tenus
Thelephora terrestrie
old needies: Marasmus androaccus
Pinus contects Donel, vol. Marasmus

(Balf) Engelm. Hyporesmella concolor Pinna m

Pinus sp.
Cresarteum Quercuum
trood: Cemophera suffeesta
Crepidotus nidulans

Fomes pintrols

Plaum sativum L., cult.

Ascochyta Pial

Colletotrobum Pia

Bryaiphe Potygens

Fuscium Solam vac Martil

Pusarium Solami var Pacudomonaa Piri Septoma flagasijiirra S. Piss
Uromyces Fabso
Plantago erlopoda Torr
Puccisas Austidao
Plantago major L.

Erysiphe Clehovacearum Peronospora alta Phyllositota Plantagines Septoris plantagines var. Plantaginismaioris

Pissers sativars L. cult .- Cos

Pleurotus sp. Cladesporium epimyres Poa srids Vassy

Pocetha rubigo-vica var Agropyri
Pan compressa L.
Eryaiphs grum.nis
Pon crocata Mohx.

Pom erocata Missix.
Uromyces Dactyhdio
Pam neproralis L.
Erysiphe gramuus
Pom paluetris L.

Leyniphy gramms
Poscimia Pone-midetican
Poscimia Pone-midetican
Contractor purparea
Co

Posenna Pose-rudelicae Uromyses Dastylvilas Urallicae attriformus old leaves Phtsillaria culmigena Polygala Seenga L. Postuna Andregosgonts var. polygalina

Potenta Andrepogents var polygalina Polyganum amphibium L. var Hartwrightsi (Gray) Binel. Pustina Potygon-amphibii var Penntarian

Polygonum aviculara L. Cercospora avicularia Erymphe Polygona Uromyon Polygona Polygonum buxiforme Small

Urozayeza Polygoni Polygonara cilinode Michx. Ramularia cilinodes Ustingo anomala

Polygonum Convolvulus L.
Pacouns Polygon-amphibit var Convolvul.

Pulygoniam erectum L. Cercespons avietilans Erysipon Polygon. Ovilania avicularia Puccinia Aristidae Ramularia reformaculana

Ramularia reformendana Urumyon Polygoni Polygonum Muhlenbergii (Mesen.) Watson Puccinia Polygom-amphibi var Pore Ramudorus anomala

R. rufomacusas Polygonum neglectum Bassor Eromphe Polygon.

Poecona Aristodae Polygonum Persicaria L Septeria Folygunorum

Entilego atriculcas Polygonum ramosissumum Muchy Polygonum rubescena Small

Hestroyces, Polyanous Polygonum sagittatum L.

Geographium Payventi Polygonum upp., old stems

Mateuricassia Polymore sumitata Polypornouse, old

Californ polyporazione Duetylium deadwidea

Hypotres pitrina H wallsda

Hypomyont numet.ut

H. rosellas. Oxydentia alboviride

Populos angustifolia James Restoria populicala Unginula liqueia

Posselus balsamifera L. Cladosportum subsembe Marssonina Castagnes

Meiazopacea Medunar M. occidentales

Phyllostieta brunnen Septoria musiva S. populiesta

Irnvetre Cururbituria staphula Dichaena Popula

bark Casorphneria exilio

Betancies enfects treed. Certimism franctinitum Romer neartale

Polyperus udontes P materialmentus Tramstee become bud goaley Luchnum virginsum

ald leaves. Pistillaria davulata Populus deltoldes Marsh. Melampsom Meduase

propoles: Cytocope obresesperms

Populus tremulaides Michx Cladomonom subsessile Formus agrillarius

Funciadrum radioeum. Hyperylus artifatum Marwon to Custaens Myrucon on comitation

Shullestude bronzes Scierotum bifrora Sentaglorum rhopoloideum

hygnolys: Cryptosphaeria pegulina Melancone corolta.

Teichespora pruniformia Valsa rovea barle Botswoohems pseulools

Eutypa lata year Dardales amoster

F pincoola Odontia fimbrinta Polynoros adustus P breaster

P paygaracaus P velutions Roscuinta pulveranea. Trumwtee hoodda.

cecking Cipera concus Permittee eco. Phyllostecta, vytermenta,

branches Corticium contellare Didymella eagadeoxia Fenestella phaeogrora

Fugarium approtrichioides Londofium compressura. Lophiostoms triseptatum L. vestature Ostropa elnersa Sherouro roduro

Sturtle mellis S. rediate. Valsaria instituta bark: Acanthoetigma Clinton,

A. dieser Amphisphace a bisphaceica

Areyrus cimeres. A donudata A. ferrus.nea

Botrytis sinceels. Cenangium populasum Chondremyes aurantaeus

Cortiguet betryoideum C. grastaceam

C. nolymmum Daldma awardis

Populus mp.-Cox. Dianema Harveyl

Diderma Chondrioderma

Richariella scinulosa Eutyps Atharii Exidia glandulcea

Fulico intermedia Helicoms Beckeleyi W woollings

H olivaceum

Helsomyces gracilss Hormatta alba Hyalores ochraonas

Hypoxylon Howeisnum

Lashnella cortoslia Narmatelia puolenta

Poncophora mutata P ploring P veloting

Personnens corticales Phichta strigosoconata

Poris borealis P contraste

P oumors. P sutirulate

P rhodeila Scoon-turin Popus

Teschonory obdurers Toher expelidates

Tympanu spermatiospora wood: Aleurodiscus cerusustus

Axedosphagna albomaguiana Arryris occodentalia

Badhsous mages D. DAILLOOK

B. ntricularis Caldenalla fermainesa

Calogera cornea Catinella naro-clivacea

Ceratostoma brevirostre Chastosphacria atrobarba

Chiorosplenium sariigiosacena Cienkowskia reticulata Comstrichia flaccida

Comophora bysecides C. carebolia

C. olivacea C. mffoesta

Coprimus aphthonus Corticium aracheoideum

C. flavescens C. lactoscens C leathern

C. perceuts C. rubelium

C. vallernum

Populus spo. Cos. Coryna sarcoidea C sarcounts van urnalis

> C. cincaberinus C. fulvotomentoms C. baerens

C. berbazum Cyphella fasciculata

C. minutassima. Desmanerella pobleata Distrype bulata Didyroum prustaceers

D. melanospermusa Dinemarperium Robinise Mammada almeda France applaratos P imiarius var nigricans

Grandinia Brinkmannii Helotum citroum H. virgultorum Hemitrohia etapatu Murasian trachuderran Hymtnochaete cianamomes

Hypochnus camulamia H. cornarius H och-nosponus H ferrurintus

H stabel/spun H pallidofulvus **П** разповия H. relosus Il rubiginorae

II umbrinas Hypoxylon rubigiossum II servens Hysterographoum Mori Lancephaeria cancecuta

L hiresta L hispoda L ovina L. spermeldes T. atrimone L. vindicems

Leptinus sulcatus L. vulpinus Leuritee betuline Merulius treznallosus Mollina cinerca

Nationna lignicola Nortria Posita Odentse sympte O. bécelor

O courtes O. funcontra Populus snn.-Con. O. Inotes O. setupers O. mds. Orbilia winthostagma Panus stypteeus Patella setces Patellarya atrata Proposition A.leschen P cosass P guttuldera P langapora P pulsers Perinella varidiflavascona Phohota souurtoscidas Physnrum auriscalpsom P betestum P contextum P globuoferom P notabile P nutana P oblatum P veride Pleurotus emapedius P cetreetus P pulmenarius Polynomus albellus P amnabazinus P floriforma P glomeratus P semipileatus P subshartaneous Poris ambigua P punctate P purpures. P semitingta P versinees Porothezum fimbriatum Propoles (aginea. Rache, are cancarions R. spethulatum Rosellana narasitica Sarcoblastia nementa Schoophyllum commune Steecherizum ochraceum Steresum concrascens S. fearustum B. fuscum E. purprereum Teschoepora fulguesta T populma Trametes malicola Tremel is vintous T Inconsumo Zignoslia pulviscula onthins: Helotrum aments

HOST INDEX Populus mo Con. follen leaner. Discosis arthuress. Helotum eauphyllum Managirus epichyliae Selectium compactum Typhula fisformia Portulaca olaraces L Album Portulação Potamogeton heterophyllus Schreb. Potamoreton natana L Deparation Market noffings Potentilla anserina L. Ramolaria arvenzia Potentifia broinnatifida Douel McNisia Debres Phraemellum Ivessa P Potentillae Potentilla frutionea L., native and cult. Phrsemodulm Andersoni Potentulia glabraita Rycio. Potentilla hyppiana Lehm Phragmodeum Potentiliae Potentilla monspellansis L Motors Debugs Preproppera Potentillac Ramularia arvensio Potentilla Nuttallii Lehm Phragmidium (vestac Potentilla palustria (L.) Scop Septoglorum Potentillae Potentilla penneylvanica L. Potentille strigge Pali

Phragmidium Potentillac Potentille tridenteta Ait Puesin astrum Potentillae Prenanthes alba L Poccina extensicola var hieraciata Septoria Nabali Prenanthes recemose Micha. Propries automolecke was humanista P orbitula Promette suissele L. Sentoria Sruneliae

Prunus americana Moreh. Cylindrospersuto presenborae brancher: Femen fulyon Prunus Besseyl L. H. Boiley, native and cult. Basilius amylovorus Cytomore ambiens Podosphacea Oxyacanthac

Scierotana frueticela Taphrina deformans Tehermologia vedenna branches Clasternsportum europobilum Micropeza druparearum Vales ambiens

Prunus melanocarpa (A. Ne's.) Rydb. Dibetryon meriosum. Neetria cienabarum. Podesplasera Oxyacanthise.

Sciercians fructocela beanches: Distrype stegrea Prunus sugra Ait., cuit.

Prattus napra Alt., cult.
Bactius ampiovorus
Cylindrespurium prunophorus
Scierotusa Iructiona

Taphrina commune teancher Diaporthi Prun, Micropera drupacearum Polyporus pubescess

P tumpiferus
P versuodur
Vales ambums
sid mir. Sportermus leutoenhaariondes

Prunus pennsylvanica L f Cylindrosperium luccasle

Dibetryon morbosum Taphnas mutitass

Taphnas mutitas Prumus pumilė 1. Dibotryon morbosum Podombaera Otyceantuse

Podosphaera Ozyscantuse Prunus virginiana 1. Cylindrosporium lutescens

Dibetryen morborum
Phyllosticia virgonania
see Sporotrumum paraesticum
Awardes: Crinangium populireum var prum-

eola

Diatrype alboprunosa

Diatrype alboprunosa

Datrypella verrumeforms Diploms Prun Phoms Prun

Teichospora insecuts

Prunus opp., instre and cult
Cladesporium zarpoph um
Phyllosteta circumscram

Phyllogicta circumscom Pseudomonas tamelacions Tryphothecium researa

brancher Botryosphaena fuliginosa Cortecum erustaseum Cytospora leurostoma Masseria consparrata

Cytospora leurostoma Miseseria consparrata Melancori, um cernorium Notria cinadorina Poras prunicola Rosellissa ligancia

Schutecylon meigne Solenia acomala Spinisrographium niveum Spinisropai Malorum Stecom purpuratin

Valsa cincta V srucostoma and oult. Cerecapora arboresa Phyllosticta viticola Uncinuls necator

Uncinula necator

Paorales argophylla Pursh
Dicoccum Peoralese
Septoria argophylia

Deptora argophylia Uromyces Pacadeso var argophyliae Pacades osculenta Purak Glocosporium Pacadeso

Pacdera quinquefolia (L.) Greene, natire

Peoralea lamendata Fursh
Uromyees Psomicae var typica
Pteretta modulosa (Michx.) Nisuwi
Taphnina Struthouterida

Urod.nopsis Structuopteridas old fronds Cyphella uspula Danyscypha Carentuna Leptetlyrium litgossim Solonia filoina

Pteridium Intiusculum (Desv.) Maxon Cryptomyces Pieridis Puscinellas nutkaensis (Presi) Fern. &

Weath.
Puccinellia tenuiflora (Griseb.) Scrib &
Merr
Puccora volugo-vera vor Agrops ri

Puccinia ere Uredinales Pulsatilla ere Anamone Pyrola asarifolia M.chx Chrismyra P. n.lae Paccinattrum Perolas

Pyrole chlorantha Switte Pyrole elliptica Nati Pucomastrum Pyrolae Pyrole rotundifolia i.e.

Chrysconyne Pyrose Pucconastrum Pyrose Pyrola sp.

Pyrola sp.
Spheroux Pyrose
Pyrus americana (March.) DG

Gymnosporungum auszeliseum Pyrus baccata L. tult Batillus amysovorus

Puretadium dendritoum Sphweopeis Malorum fermoles Ortospora ambietta Deletria grandia

Diatevpelia irregularis Eutypa radibunda Hypervlon Morsei Metasphaeris Iriostega Phietan strigososocouta Polyperus tulipilerus P venatooo

Sch ambyllum commune

- Perus baccata L., cult -Con Stereum numureum Tuberouarus vulgaria V seurcetoma Pyrus Malus L. sult Peniciliam expansion
- Ironal Certie um acro Pyrus sp. Censothyrough pyrinum Entocauspurium maculatum
- Gynmosporangium clavepes Quercue dentata Thunb., oalt Taphrina exerclement
- Querque macrocurpa Mothy Massacours Martini
 - Micromittera Alni var estortadochera Phythosticta ligids
 - Tanbrina caerultagena branches: Carypeum Kunzon
 - C pustuatom
 - Districte stigma.
 - Didymosphoena, deprospora
 - F respective
 - Helminthosoorium macrocarpos
 - Hymenoclassic Curtima
 - Metaspaarria quenta Ostroca rocces
 - Personhora esperca Peatmottes Incides
- Aud Assuralment scenies. A grisentania
- Ampusphersa applacate Cortitium controugum
- C. erastareum C rutellum
- Sterosan assessmented Tesetsocrory atulacens
- wasi Cortuin m andrutround
- Fistolina benefits Helminthosperium fuerferror
 - Parus styptomas Patelies apprairies. Persophers pubers Polyperus bruma is
 - P planeuus
- P wormendor Propulis fuzzona
- Reselling agreets

- Querous mucrocarna Mirhx-Cox Iroits Calicium pusillum
- Heighum frostgenum Scientinia pseudotuhomsa follen larges. Cylindrium aerugatowan
 - Cynbella trarhyrhaeta Discosia artocreas.
 - Helotum aibidom Marnamus eninhylius
 - Selerations candorlesson.
 - Redicula Armoracia (L.) B. L. Robinson. cult, and escaped
 - Radicula palustria (L.) Mocnel.
 - Albugo candida Ranumoulus shortivus I. Ascerbyta of mount
 - Puttern a ?Entonium Ranunculus Cymbalaria Puni.
 - Parecrus ruburs-vers var. Agropyr. Ranunculus delphinifolius Torr
 - Dogesantia ranuntutina Renunculus Macounii Britt
 - Entyleme Ramunculi Cromvees Alepeturi
 - Ramprophy permayleanious L. Fabruro Basunguli
 - Renunculus sceleratus L Uramypee Alapseury
- Raphonus sativus L., cult. A.buro candida
 - Rhamnus alnifolis L Her Careospara Rhamu.
 - Puccion curonata Rhampus catharties L. cult
 - Purcous roronata Rhaum Rhanonticum L., cult Ascachyta Rhei
 - Collebotrichum erumpens Peronospora Joagcons Phossa perbarum
 - Phyllosticta atraminetta Rhue clabra L.
 - Rhus Textondendren 1.
 - Cereospora rhoina. Cv. parosporium Toxiedendri Phyllostete rhogove
 - Pieclana Tomosdendri Wilhes aureaum Persh cult. Glospororium Ritus
 - Septoris aurea stems Thyropeetria berokeensus
 - Sobseroppis ribicon

Ribes floridum L'Her Purcina Caritis var. appendariata Sentoria Ribis.

Subscrathers more-grae stress Dothules ribasis. Mastemyres Priesis Metasphaena lescotega

Thyridium antiquum Thyropectria berolincose Ribas Grossularia L., cuit. Pseudopeziza Ribis

Pucciosa Caricie vay apostulationa Sentoria Rober atems: Thyronectris beroknessis Ribes hudeonienum Richards.

Sphacrothera mora-uvac Ribes Incustre (Pers.) Poir

Passinia Parkerae Ribes nigrum L., cult. Alternaria Insessu)ata

Changenesium Bibes Puccinia Caricis var grossulariata Sentoria R.ois

Subserothers more-was Ribes expanantheides L. Plasmopara ribeccia

Purcinia Carotti var grossilarinta. Ribes satesum Leadley

Puzzinia Caritis var gromuariata Wibes triate Pales Puscuma Ribus

Ribes vulgare Lam. Pseudoperiza Ribus Sentoria Ribes. stems: Dodhidos sthous

Errone R.hos Boharropeta ribirola Thyropecteia berelinensie Terbercularia vulgaria

Ribes m. slesse Godroma urceous Lashnum breefur Nectria cinnabarina

Sebacina calcea Sphasoprentous piveum Reripa: see Radicula Ross scicularia Lindi.

Phragmedium Rosso exicularia Ross blands Art. Phragredium montivagum Sphaerotheca Humuli

stems: Phomatospora Rosac Rese Macounti Greeze Phrumodium Rosas-accularia

P speciosum

Resa sto. Actinopems Rosae Paraemidium distriborum P Rosse-srivansanse

P vonecela Spherothera Humuli sierus Cytospora ambiena Dustrype stigma

D tristieha Didymosphacria diplomera Lonboustone travotatum Metaspraeria loiostega

Spharrothera Humali Tapesa Rossa old leaner Dinoncurron Rosse

Discous arteores Rubus scaulis Micho

Rubus arcticus L. Cymnoconia Peckura Poerimastrum arcticum

Rubus idanus L. var aculastissimus (C. A. Mey | Royel & Tiling

Rotrytus cinorea. Didymosphaeria manitohierisia Stigmates rubinous Rubus idaque var strigosus Maxim., cult.

Conjothyrium Fuckelis Didymelle applanata Gloccaporium vestetura Lentauchneria Counthyrium Metasphaeria leiostega Phragmidium Rubi-sclass

Sentoria Robi Sphnerotheca Humuli Bulus malanniasius Focks

Phrogradium Rabi-klace Septoria Rubi Rubus triflorus Richards Cymnocenta Perkuna.

Phyliosticta Dearmosti. Procedenzatrom pretorum Sentoria Ruhe Sphaceothcea Hummii old leaves Discous artogress Budbeckia lacinata !..

Etysiche Cithorntearum Phyllosticta Rudbeck.ne Plasmanara Habstorit. Ramolaria Rydhookisa Sentone Pre-heologe **Uromyone** регівунике

U Rudhessian stems Colletotrichum Rudbeckise Rodbackie laciniate var hostenela L. H. Bailty, cell.
Beiercoma acletoriorum
Romens crispus chiese
Romens respus chiese
Romensary coccisiones
Processar Phragmita
Rances occidentalls Watson
Purcipus commana
P. Phragmita
P. Phragmita
P. Phragmita

P Phragmitis
Rumer venosus Puruh
Bacularis deupiesu
Rusevia app., chi
Chatesparum epimyees
Poessella vitidis
Sporodinia grandiu

Sporodinia grandis Verticilitus Lectarii Sabina sce Junisperus Sagittaria arifolia Nuts. Dossesses atermedia D Sugittariae

Dossesses atermedia D Segulariae Segultaria Intifolia Willd. Cercospora Sagultariae Glocosporium conflutas

Donnannia deformana D furva D intermedia D Sagistarias Funarium Scirpi var accumantum

Rhysehospecium Aliematis Salis sunygdaloidas Andres. Melamptora Bugelossi bark Assurediscus graeconnus trood: Penunphoea Roumeguerii

trood Penuophora Roumeguerii Salia brachycarpa Nutt. Salia caradda Fluegge Salia cordata Muhl. Metanascora Aposti-carracarum

Salia herbuosa L. Melampeora Bigelowli Salia pentandra L. Cytospora chrysosperma

Salis app., native and cult. Cercospora salicina Glocosporium. Salicis Mansonina sp. Melampoora Bugelowii

Marssonna ap Melampsona Bugelowia Ramularia resea Rhytema sabeinum Septoria rancina

Uncounts Salicias temps: Cytidia sulforna Cytospera ambiena C. Caprese Disporthe tessella

Distrype alboproisses var. saheina D. stums Salix spp., native and calt.—Con. Didymella canadensie Diptodina Salicia Favolus canadensis Heotium salicellum

Heatium asleetium Lopisortoma ecosum L. sexuudissium L. triseptatum Marcophoma Salicie

Ocollara cocilata
Ostrope cinerea
Peniophona sinerea
Plesopona berbarum
Sphaerographrum niveum
Steerum rufum
Treehospora finecura

Hereum rufum
Teschospora inacura
T megastega
Trimustostecus emericazum
Vales arobiens
V borcella

V palida
V naliena
V transaucone
bush Aleurodiscus corussatus
Chromorou gelatinosa
Cortee in orustacoum
Rateroa Acharu

Eutypa Acharu
Es lata
Escidia gandulosa
Leptosphaeria consenilis
Phasasi vulgaria
soasi. Chlorosphenium asraginosam

Cortecum ropeam
C vellereum
Daedales antetor
Fomos ignarius
Hymerochiete cariarius
Hypterographium Men
Hypterographium ilitora

Hysteropatota ciliptos Ladosphaeria bicusta L. orina Mellisia einecea Odontia arguta Oligonema ratens Pencophoea globulosa P. gattolifera

P guttohfera
P longispora
P pobera
P Sambuei
Prainella viruliflavencena
P wellte

Polyporus ervalurius P dichrous P gilvun

P gilvon
P melanopus
P tubpiferus
P volutious

Salix app., native and cult. Con. Poris farraginess.

P punctata P viticola Resellina mammilorura Stereum versiorure

T suaveoisus
Trinotrium myongous
Xyaria souta
culture: Ciberia amentacea

Bentoria recentes L., cult. Bentoria recentes L., cult.

Sambucus sp. forage Cameresponum Sambuci Phones sambucine. Santeula marifandica L. Puscama marifandica.

Uroph yetis pluviannulata Baponaria officinalis L., colt. Cylindrosper.um officinale

Cylindrosper...Im offemale

Saponaria Vaccaria L.

Macrosperium Saponariae

Sarochatus vermiculatus (Heuk.) Terr

Purpiria Aristiciae

Sarvacenta purpurea L.

Myccephaereia Sarracentae

Schmichyrium: ne Andropogen Schrius atrovirene Mishl Schrius experinus (L.) Kuntr Schrius microsarnus Prop.

Scirpus microcarpus Pres. Puccinsa angustata Scirpus paludesus A. Neb. Urcanyos Sarpi

Setrous validus Valu Hypoderma setroussiss Puesitez elitecta Septeris carvasans

Septonia narvasana Seniochica festucacea (Wild.) Link Puncima correnta Seutellaria lateriflora i

Eryaphe Gaseopsius Beptoria Sentellariae Secale cereale L. cuit Claviteps purpuesa

Claytoeps purparea Erysephu grammos Paratrum avvonreum

F oxytporum Halm athesporium geroculatum H satevum

H salevum Laguna radicionis Olpidiaster radicis Poesima granumis

P rubigo-vera var Socialis Pseudomonas transforms var Secalis Secala cereate L. cult.—Con Pythuum arrhenomenes var canadenses P volutum Septoras Secalis Sonaceita scentum

Sphacekin segetum Urocyatus occulta Samucio columbianum Greene Paccinia extensicosa var historiata Sataria glauca (L.) Bestiv

Ustingo seglecta Setaria italica (L.) Benav, cult Sciercopora gramaticola Setaria viridia (L.) Benav

Setaria viridia (L.) Beauv Piricularis grassa Pythium arrhenomanes var osnadenar Selerosnom graminicola

Shepherdia argantea Nutt
Puccina Cancia-Shepherdize
Spharouticoa Humuli var Iuligina
Shepherdia canadensis (L.) Nutt

Shepherdia canadensia (L.) Nutt.
Procum Cancin-ShepherdinP corocuta
Septoria Shepherdiac
Spinacordines Ruman var fudginea

Sibbaldiopsia: see Potentilla Situarsia: see Gaum Silens noctiflora I. Soptora: Lychuda: Sigmbrium altiasmura I.

Albigo candida
Peronespeni picuelitea
Puccinia Azudidae
Siaymbrium canescana Nutt
Purposi Azudidae

Paccinia Aristidae Siaymbrium Sophia I ADigo candida Siaymchium angustifolium Mil Brendida Saymocha

Brenckira Paymocha Siom eleutifolium Schmak Fosciadium urpressum Septoma Se Louisea Seana

Smilacina stellata (I.) Deal
(Y., nulvas provoja Panilacia)
(Papillacia (C., evanilacia)
Papillacia (C., evanilacia)
Panilacia
(Penilacia)
(Demoyoes ocurovatus var magintus
decos (Califortichous Demastum
Smilar herbacos I.
Colletterbous II. accessmin

Metaspharia Dramesa. Flyunstata dopida Pascina amphegena Ramularia subrufa

Stagonospora Smilaca Sott-fungi: see (76, 78)

Selanum melongena L., cult.
Alternaria Schang
Selanum trifferum Nutt.

đŧ. Solanum tuberosum L., cult.

Actinomycos scabics Alteroaria Sulana Bacilius phytophtherus Colletotrechum atramentarium

Cortumum Solars. Pasarnam correloura F exysperum form 1

F sambucinum form 6 R trichetherisades Phytophthora infestage

Bhanetona Casstenin R. Solane Spondylpeladium atroviruna

Vertazillium a bo-atrum old tubers. Arrestalaemus citralarinos Stysamus Stementer

Solidago canadensis L Crreesporella runa

Colosporium Sobdagino Solidago gilvacanascena Rydh) Smyth

Coreosportum Solidagima Ramularia V resource.

Selidego hupida Muhi Raymbria Virgaurese

Solidago multiradiata Att Cotrosportum Solidarium Solidano memoralia Art

Pacemea extensecés var Soudagenss Selidego rigida L. Paceina extensions var. Solidarinis

P. Stump Septoria sobdaginizola Solidago serotina A :

Categornesisten Scholasina Pareiros externicola var Selidacinas Septoma sobdaginggon

Solidage on Erreiche C'obersoneum steres. Ophropolus fulgidus

Rhabderpera Soliderina R sutarrison Sonehue arrange 1.

Mazwenna South Rhusectorna Sotane Scotoria Scorbs arrenain 8. supeh/ma

stress Loptosphaeria dollocum Phones cyathordes

Seleratrum decirluum Sporocycle terrolata

Soulds, see Slavmbrium Sorbus to Pyrus Spartina gracifis Trin Clavinepa purpuera.

Puccessus Distribilitas Urosavem neuminatus vas magnatus L semmentus var. Pelamont.

Spertina pertinata Rost Puomess Distablidia

Crocovers acuminatus var magnatus t' acuminatus var Polemonii Sphaeralces see Malvastrum

Spharagemon collere (Scud.) (.asect) Ruspuss Gry.li Subenopholis obtuents (Michx) Scribs.

Puccinia Entoniae Solder

Beauverta donus. Spinacia oleracea L., cuit.

Регоногросы Мойпасыю Spireen salicifolia L. Cercospora rubigo

Cylindensporkers activifying Spiraca an cult Nectria cinnaburino

Solrodela polyrhira .L.) Schied Tracya Lemman

Spirogyra 10 Lagrandium re-

Sporobolus cryptandrus (Turr) Gray Purcines graments Stachys palustris L. Erysephe Cotherscearum

E. Galcoperdis Septona Stackrda Stackys soupulorum Greene

Steironeme ciliatum (L.) Ref Physlostysta deciden Postinia Days

P Dutchlidia Rammaria Lyammachine Septoris conspicus Stallaria longifolia Muh.

Stelleria longipes Golde Propries Argustian Stellaria media (L.) Orrillo

Septoris Stellaring Stapa comata Trio. & Repr. Poteima Stipat

Crocystis granulosa Cetilago hypodytes

Stips epartes Trip. Peccious Stimes Stipa viridula Trin. Clavicepe purpurea. Provinta mabre

Fucunis scatter
Untilago hypodyten
Symphoricarpos albus (L.) Blake
Microsubsens diffusa

Symphoricarpos occidentalis Hoak Cercospora Symphoricarpi Microsphora diffum

Purcuma Crandalka Rhinagene Symphonoarpa Sentoria Symphoniaeria

45mm Arthostoma melanotes Camaresportum umbonatum Cryptospera Kansensia Critospera Symphospera

Cytospora Symphoricarpi Didymosphacria decolorara Dethichias Symphoricarpi

Haplosporella Symphoricarpo Hymenochaete cissamomaa Lothidium ap.

Lophicutoma praemoreum L. trimplatum

Metasphueria sp. Molluia cuessa Ottkoa Symphorycuspi

Pensophora sinerea.
P subcremes.

Postalezzoa pezizcodes (orm longiseta Rhabdespora ap. Resellina, parantica

Resellinia parasitica Schisoxylon destpiene var Symphoricarpa Valea Symphoricarpa

Symphoricerpos sp.
Phyllostista Symphoricarps
Symphoricarps
Symphoricarps
Symphoricarps

Microsphaers Aini bracches: Sphaeropeis Syringae Tamaria ap cuit old stema

Semeria op. cult old steme Concethyrium Tamaricis Vana ambiens

Vanu ambiens
Tamecetum vulgara L., cuit.
Ramunris Tanaceta

Tarameum dumaterum Greene Puteirua Hierara Tarameum officinale Weber

Poecima Hieracu Ramularia Taraxaci Rh.scetonia Selam Sphacretheca Humuli var. fuligana.

old parts Colletoteichum Dematium Thalletrum dasyearpum Fisch & Lall Erysiphe Polygon Phytachthera Thalletri

Puccinia rubigo-vera var Agropyri P rubigo-vera var agropyrina Transschetta Thaliotzi

Transchelia Thalietei steres: Rhabdospora rugica Thalictrum diofeum L. Entylome Thalictri Mycosphaecella Thalictri Phytophthora Thalictri

Phytophthora Thasastri
Puccinia rubigo-vera var Agropyri
Thalictrum venuloaum Trel.
Puccinia rubigo-vera var Agropyri
P rubigo-vera var agropyrina

Transcholis Thalietri Thaffetrum sp. Cylunurosportum Thalietri

Septoria Thalittu
Thermopsis rhombifolia (Nutt.) Rechards.
Cercospura Thermopsidia

ateur Endodothella sp.
Phoesa thermopodicon
Thinspi arverses L.

Alternacia Brazzinae Purc.ma Arrotidee

branchia Anthostomella pholidigena busk Mytalidion Thujarum

Odurisa slutacea usos! Ceniophora cerchesia Corticium vagum

Playetus applicatus
Tilla americana L.
Phyllosteta Tilue

brancher Cypheliae Tiliae Dinemseporium Robiniae Exceporium Tiliae

Massarvella Curreys
Sphaeropau ol. varca
burk Continue confluent

Nematers nucleata
Pemophora mada
used Certinum septentrionale
Hypoxynos robiginuson.

Rypasyon relegiousen.
Orie is chrysscoma
Tiniaria: see Palygonum
Tosicodendron see Rhus
Trachyrachis klows (Thom.) ("nect)

Empus Gry.li
Tragopogon dubius Scop.
Tragopogon porrifolius L.
Albugu Tragopogon s

Trientalia americana (Pera.) Pursh Ramyana Magnusana Septoria numera Trifolium hybridam L., zult- and secaped Greenment salman

Potythrinetum Trifelis Pseudoplea Trifelis Stagoncepura Meulota Uromyoes nerviphilisa U Trifelil var hybridi

- Trifolkom reselium L., cut.
 Uromycen Trifolii var fallens
 Trifolium pratense L., cut. and escaped
 Erysipte Polygoni
 Glocosporum spadorum
 Polythotium Trifolii
 - Pseudoples Trafelii Scierotania seierotiorum Uremynes Trafelii var fasema
- Uremyors Tracell var falens
 Trifotum repens L., tult. and escaped
 Bromyoes perviphilus
 U Trifolii var Trafulii repentia
- Triglochen maritima L. Puttons Aristides Trisetum spicatum (L.) Richter
- Trisetum spicatum (L.) Richter Purcins monosca Tritteum aestivum L. cuit.
 - Claviceps purpurea Etysiphe gramma
 - Fussium avensorum F avenseeum var velutum
 - F bulbigenum
 F bulbigenum
 Lyoppersite
 - F budingutuan var Lytopersi F sulmorum
 - F cuimorum var osreale F Roussets
 - F Equises var bullatum
 - F moniforme F orthogens
 - F. orthocerus var. iongius
 - F oxysporum
 F oxysporum var surantasum
 - F Oxymporum var aurantanum F Pone
 - F Pone F reticulatum
 - F Scirps ver stutumatum
 - F Scirp var Sliferum F Solsen
 - F Solam var Martii P anomtrichenides
 - F sporotrickeoides Helmintbesporium generalatum
 - Helmintbosporium geniculatu H intirum
 - H. term H. tetramera H. Tritis-repontin
 - Lagena radiciosla Olpolineter radicio
 - Olpulinoter radiris Optiobelus graminis Pacudemonas atrafaciena
 - P transluccie var undulces Poccina giomarum P gramms
 - P rubigo-vera var Tritici Pythoum archenomanes var canadensis
 - Pythorm arrhenomenes var esnade P volutum Srutoria nodorum
 - S. Tritici Threlayes terremla
 - Thiclavis territol

- Triticum sestirum L., sult.—Cos
- Tilletia conce
- Trithotheeium roseum Ustilago Trites Wojngwoon graminas
- Wojnowicza graminis old ports of plants, and roots, some fungirooshly parasilie
 - Acronta agrous cianabarinus Axpendillus Bavipea
 - A. Okozakii Bullera alba
 - Chartennum olatum
 - C. globusum Cladosportum granquigum
 - Coprisus phaeosporus Cunniughamella elegano
 - Epicaccum purpurascens Fusarium coeruleum
 - Geomycen vugana Glociadium roseum
 - Metarrhesium op. Metarchareta levaloarera
 - Metanphaeria hyalo Mon da implicata
 - Penreillium alneinum
 - P restrictura P Thomai
 - Periolosnia sp.
 - Pyrenophora trichestoma. P Tritto-repents
 - Speira tarniouse
 Triticum compactum Host, cult.
 - Triticum diosecoldes Korn., cult.
 - Triticum diesecum Schrank, cuit.
 - Разлика дъпшава
 - Tritteum durum Deel., colt.
 - Clavicepe purpures Futerium avenuerum
 - F bulbupenum F oxyaporum
 - F Scirpi
 - Gelasinospora cerealiz Helmiothosporium geniculatum
 - Helminthosporium genie R. sativum
 - H tetramera Lagena radictona
 - Puocinia gramma P rubigo-vera var Tritati
 - P retego-vers var Trita: Paeudomonas atrofaciena Tritata carses
 - T Inevis
 Ustrago Trittet
 Tritteum Spelte L. cult.
 - Pottins rubigo-vers var. Tritica
 - Tropasolum majus L., calt.

Tulipa Gameriana L., cuit. Botrytis Tulipao Typha latifolia L., chi porte

Typha latifolia L., eld porte Heterosporium maculatum Peniophora Sambuzi

Ulmus americana L., native and cult Geomerus dimen bessence: Camarogorium cruziatum

Dipensiporium Robiniac Dipiodia metaera Nummulara repanda

Persophors ercerca Sphaeropsis ulmoods Thyroform ambicium

Valsa ambiena 6srk: Diatryps hochelagae Guardinia helvetsea Hysterupatella Prost.

Marassaus undrosserus Perseptiora longospora Pretalessa passieras Terchospora obducens

eroof Alingmasson ramponatus Coprinus domenticus Corticium forestratum C naticulare

C. meeura Mollissa cinerca Picurotar ulmanias

Polyporus concluier P fumorus P hartutus P tulipiferus

eld tensor. Helotium alboum H. renisporum Tensoria success

Ulmus parviflora Jacq., cutt Nectra consbarna

Vestra comobarna Uredinales Darluca Shom

Tuberculina preseira

*Unifeirum see Melanthemum

Urtica gracilis A t
Puttenen Carites was articolo

Purcena Carica var articuta Ramularia Urucae Sclerotica selevotiorum Septona Urticae Mess. Leotombarria delialum

Pistillana micans Urtlea Lyallit Watson Puccina Caricio var urticata

Urticastrum see Laportea Vaccinsum canadense Kalm Venturia commeta Vaccinium Vitta-idaes L. Puccinistrum Gosppertiscum Vaccinium sp.

Vaccinium sp. Evolusidium Vaccinii Vagnera, see Smilacina

Valan ap., old Nostria epusphaeria Varbana hastata L.

Verbana hastata L. Phyllosteta verbenenia

Phyllosticia verbenicula Veronica longifalia L. zult Septoria Veronicio Sphoriotheca Humuli vas fulginea

Varonica peregrina L. Peronospica grissa Viburnum Lentero L

Colresporsam Vibura Misrospharca Aln.

bwoche Cryptosporella Lentagous Disporthe Viburiii Di lymosponeria epiderzades Eutypa in liarus

Forces conclustus Hysterograph.um flexuosum H. Franni. Pogrpicus tudulans

Stretus fusca S. radista Viburnum Opulus I... Cercospora Opul.

Plasmepara Viburus Ramulana V turn, trancher Diaporthe Viburus Diatropula dissocidea

> Didynsola maritolismois Didynsosphaesis vildermidis Heteropateia Viltura Hypexyson fuscum

Hystorographum Fraxini Leptosphusiris berealis Massaris plum gra var tetraspora Perisloza a beolia Rhandospora Vinura. Ond i

Stirlis funcs. S. molles Vales ambuscs

Viburnum pauciflorum Raf Cercopora Opus C. varis

Puccinia Linku Viburnum pubescene (Ait.) Purs! Cercopora varia

Phyliostota Lentagina eleus: Metarptaerra arreometra Viburnum sp., branches Corticium centrifusum C drustateum Distryon satemeters Didymium melanoapermum

Naemateua nucieata Physics vugaria Vicia americana Muhl. Peronospora parbonegas

Unitaryess encoradecies was numbered II Falue Viela Americana var augustifolia Nece

Microsphaera Alno Peropospora Vielge-sotivac Uromayoon occuradonale yer namonator

Vicia Cranca L. Uromy per coloradensis var campester Vicia organa Nutt.

Vicia villean Roth cult. Asnochyta Victor

Viola adunea Sm.th Viola canadenna I.

Phylicetista Viscos Purcinia Violue Ramularia recentitu Sphaerothesa Hameli

8. Humuli var fuliginos Viole neurophylla Course Passinia El maria P Voolse

Viola odorata 1... Viola medatifida G. Duo Viola pubeacene A.t Viela renofelia Grav

Viela tricoler L. co.t.

Soneretbera Humuli var Julipuea Viole to.

Septems Vudne

Vitis vulpina L.

Phylostieta spermeiden Alexan Assuredianos artizeoraneas Conathyrium olivaseom

Corticium fibriagm Didymella lophospora Didymosphseria diplospera

Lophostoma trientatum Malanormamma subfanosculate Phalea soutula Spharmpeis vituzona.

Vitia sp., cult Plasmopara vittecca Xanthium commune Britt.

Puccine Xanthu Septoria Xantha

Zen Maya L., tult. Barillus Sorehi Functium averacoum form 1 Lagena radicionla

Nagrospom праветись Puersona Sorghi Pythoun prrhenomanes var ennadenses P volutum

Lutilago Zene old worts Durderlin Zean Funnium Scorpt var accommetant

Gibbere a Soutmoto Мопичена раграмения Zinnia elepana Jorq., cult

Erysiphe Cichoraceacum Zinia aurea (L.) Koch Ascorby to Thuspin

Parrish Argruent Zinia cordata (Walt.) DC: Concessors Zinese

Parma Zuna stems Collectotrichum Dematium Zygadenus elegens Purch

Puccina atronuncta Zygadenus gramineus Rych. Uremyees Zeesaless

XVIII BIBLIOGRAPHY

Various standard mycotogoal works were used in determining the fungi. Several of these have been insentioned. Part I mentules other publications which were consulted in one or more specific cases, and referred to by number in the pragos preceding.

Part II at the Biblingsymby of paymy rabidated by mycologists and physi subfologists in

Saskatcherson. It was prepared by Dr. R. C. Russell and Prof. W. P. France.
Part. III unloades the publications by Manistoban myccognise, except those at the Russ
Research Laboratory.
Part. IV us the Ribbliography of all papers published from the Dominion Russ Research.

Part IV as the Robbegraphy of all papers published from the Dominion Rust Research Laboratory at Winnipeg
The references in Parts II, III and IV are bessived to be complete to November, 1938.

The respondence in Parts 11, 111 and 17 are besieved to be compete to revenue; 1939. but in parts II and III meet of the papers not mycological, or not pertaining to western Canada, have been omitted.

Part I General

- ARTRUR, J. C. Manual of the rusts in United States and Canada. Purios Research Foundation, Lalayette, Indiana, 438 pp., 1934.
 BOYLER, E. J. and Beart, G. R. The fungs of India. Impersal Council Agric. Research.
- India, Sci Monog I, Calcutta, 237 pp., 1831
 Call, R. F. Studies of coprophilous Sphaeriales in Ontario. Univ. Teronto Studies.
- Biol Series 88, 126 pp., 1934

 4. Deaverse, J. Au annotated out of Authraginass. Canada Dept. Agric Div. Bot. Bull
- 71 02 76, 1926

 5 ELAIN, J. B. and Eventuary, B. M. The North American Pyrenomycetes. Newfield, N.J.,
- 703 pp., 1892 6 Fiterations, H. M. The lower fungi. Phycomycetes. McGraw-Hill, New York, 331
- pp., 1990.
 7 GXWASSE E Buitfage zu einer Menographue der Geitung Peronospora Corda. Beste zur Krystozumendern der Schweis. 5 1-380, 1923.
 - Gilasan, J. C. and Abchen, W. A. The fungs of Iswa parasitic on punts. Iswa State College J. Sci. 9 299-607, 522.
 George W. B. Berner, Sci. 1990-607, 522.
- GROYE, W. B. British stees and leaf-fungi (Cocloszycotes), Vol. I. Cambridge Univ. Press, 638 pp., 1036.
 MAROLE, R. W. Amoutated account of fuses received at the Imperial Mycefonical Institute.
- Maschi, E. W. Annotated account of Issuig recovered at the imperial dependenced institute, Last II, Pasceck II, 57 pp., 1933.
 Namifalier, J. A. Studens there does Morphologie used Systematic deer neight-lookingsseries suppreciation. Proceedings of the Computation of the Computation of the Computation Discourage Services.
- 1.308, 1982.

 12. Organitors, L. O. The Palyporacese of Pennsylvania. Penn Agric Exp Sta Bull 298, 1992.

 13. Organic Bull 246, 1992.
- 1933, and Bull 316, 1935

 13. Powam, A. H. W. The fungi of Jale Royale, Lake Superior. Papers Math. Acad. Sci. 20:
- 113-156, 1934 (1933)

 14. Saxyes, F. J. The North American cup-fungi (Operulates). New York, 284 pp., 1928.

 15. Saxwase, A. B. Hast Index of the foran of North American. Harvard Dav. Press, 782
- pp., 1929.
 16. Tuca, C. The Pentilla. Williams and Wilton, Battanors, 643 pp., 1930.

 17. Warner J. F. Thomas J. Nicoland Michigan and Michigan and
- WHEMBETES, L. E. The genus Dispertibe Nitschke and its segregates Univ. of Mich. Press, 349 pp., 1933.

Part II Papers from Saskatchewan

Anonymous. Root-rote of cereais. Dominion Can. Dept. Agric. Circums 72, 1929.
 — Control methods for diseases of oursal, forage, and fibre crops. Dominion Can. Dept. Agric. Pamphlet 123, 1930.
 Phassis, W. P. Collume of heterocrops rusts in 1918. Mycologis, 11, 120-133, 1919.

 Pracens, W. P. Cultures of heteroecous rests in 1918. Mycelogis, 11 128-133, 1919.
 — Cultures of Fuccinia Clematidis (DC.) Lagerb and Fuccinia Impatientis (Schw., Arth. Mymioria, 12 292-298, 1929.

- FRANCE, W.P. Cultures of hoteroccours runts. 1920-21. Mycologis. 14. 228-230, 1922. "Take-oll" of wheat in western Canada. Abet in Phytopathology, 14: 347, 1924. 24 - Cudary experiments with heterocomic rusts in 1922, 1923 and 1924. Microsoma, 17 28-86, 1923.
- 26 and Coxxxxxx, 1 L. The Uredinales of the Practic Provinces of Western Canada Trans Royal Soc. Can., Ser. 151, 19: 278-308, 1925. 26. and Lectivousse, C. A. Studies of the sedes rust, Purcoses, Carren-Shepherdae

Myroloma, 21 88-89, 1929

Studies of the crown rust, Puccinia coronata Corda. Sci. Agric 13-313-323, 1983 and Scott G. A. Smut of screters are grass. Phytopathology, 14 473-477, 1926. - and Samones, P. M. Co-operative experiments with supper carbonate dust and

other substances for smut control in 1923 Hrs. Agre: 4 257 253, 1924 - and Reports. R. C. The take-all disease in Canada. Also in Phytonathelists. 15. 80-8 .. 1926

31 GOssow, H. T. "Take-all." "flar mout" and "ear rockle" of wheat. Agric, Gazette Can. 6 615-619, 1919 (Seale reference p. 615). Myan H W Strates of methods for the molation of time: from wheat mota and semals.

Bes Agric 13 304-312, 1933 53 Seed suppry in wheat and idection by Helminthosporium mirrors P. K. & B. Proc.

World a Gram Exhat. and Conference 1933. Regina, 2: 278-282, 1935. 34. RUMSELL, R. C. "Take-all," a destructive disease of wheat. Deminion Can Dept. Agric Pamublet 85, 1927

25. Histological studies of wheat megulated with Ophiobelus gramms Sacc. Abit in Phytanethology 18 AtA 1929

591. - Field studies of taxo-all in Saskatchowan. Sci. Agric. 10 654-668, 1990. - Studies of take-all and its causal organism, Ophosbohas gractions Sace. Demittion

Con. Dept. Agree, Bull 170 1-64, 1934 23. - Take-all, a root-rot of cereal crops. Demunon Can. Dept. Agric Circular 98, 1986

(a revision of No. 34 above) 39. Hallam, B. J. Methods of inoculation of wheat with Helminthosporium sativum P. K. sard B. Sci Agrie 13 515-527, 1933

40. Sanyono, G. B. Important soil-borne diseases in western Canada. Sci. Agric. 7 292. 294, 1927 41 SISTROPUS, P. M. Seedling hight and foot-rots of oats caused by Fusscium culmorum

(W. C. Sm.) Sace. Duminion Can. Dept. Agric Bul. 105, 1928. Smot of wild cata. Sci. Agric. 11 78-79, 1930.

A washing device for solution work with plant material. Phytopathology, 20 911-013 1630 4 -- and MEAD, H. W. The examination of wheat seed to determine the disease factor

Ser. Array 18: 175-179, 1935. 45 RUSSELL, R. C. and SALLANS, B. J. A comparison of different types of root-rot of wheat by means of root execution studies. Soi. Agric. 15 680-690, 1925.

45. and Sallana, R. J. Root asymptotics in the restorcts of persals. Proc. Can. Phytopath Soc 1 33-43 Ottown, 1930. 47 -- Further studies on amputations of wheat roots in relation to diseases of the

root system. Sci. Agric 13 439-447 1933 Some observations on the growth of Marque wheat with special reference to 48. root development. Proc. World's Grain Exhib. and Conference 1933. Regns. 2 283-277, 1935.

49. - and Score, G. A. Bend treatments for the control of medling blight in persuls. See Agric. S. 502-5-1, 1928.

50. VANTERPOOL, T. C. Asterocystas radicus in the roots of cereais in Saskatchewan. Phytopethology, 20: 577-680, 1930. Cultural and inorniation methods with Tilletia species. Science, 75, 22-23, 1932.

52 - Toxan formation by species of Pythium parasitie on wheat. Proc World's Green Exhib and Conference 1933, Regina, 2 294-298, 1935.

50.

Vavrragroct, T. C. Seedling damage of flax caused by Rhusecton, a Solies and Pythaum de Baryanum. Proc. Works Vorse Estah, and Conference 1838. Rigams, 2 200-202, 1808.
 — Studies of norwings root of sevens. III. Prosphort-nortogas resistant of interested fields. IV. Effects of fort user associations. V. Presimmers punel analysis. Can. J. Research, Cit. 3200-202, 2836.

 and Leveryman, G.A. Studies of "browning" root of cereals. 1 The association of Lagena radicecola is gen., is sp. with root injury of wheat. Can. J. Research, 2

171-194, 1980.

58. — and Thuscurr, J. H. L. Stadies of browning root not of cereals. II Score parasition and Pathons and their solutions to the disease. Con. J. Parasich 4, 65-02, 1982.

species of Pythium and their relation to the disease. Care J. Research, 6, 68-08, 1932.

57 Willard, T. N. and Champon, C.A. Short in wheat and the means to be used in teocyretation. Said Dept. Agric Bull. 2, 1998.

 Reports Deminion Lab Plant Path Sastation, in Annual Reports Deminion Botanest, Ottawas, 182, 381 1922 48-463, 1923 8-53 1924 46-171, 282 93-10, 1926 110-132, 1927 38-1-2, 1931 91.07, 1928 92.08, 1939 77-90, 1831-3-2 42-28, 36-31

Part III Papers from Manitoba (see also Part IV)

59 Bress, G. R. Seccotuma disease of scanflower in Marutoba. Adv. in Phytopathology. 11 49, 192.

00 Stem-rot of sunfowers in Manatolus. Sci. Agric. 2 58-61, 1891

Manifolis potato diseases and their control. Man. Estension Bull. 66-1, 9, 1923.
 Potato secu-treatment tests in Monitous. Abol. in Phytopathology, 14-58, 1924.

Fungi from central Manitoha. Mycologia, 16 122 128, 1224
 The Selevations disease of nucleoser and other plants. Sci. Agric. 4, 381-384, 1924.

The Selection area dateses of nucleower and other phases. See, Agric 4, 381-394, 1996.
 Zonatsen 1 cultures of Fusarism discolor sulphureum. Mycrospin, 17, 89-107, 1995.
 Prevention of cereal smuts. Man. Dept. Agric. Circular 85, 14, 1927. revised 1931.

Type specimens of certain Hysteriaies. Mycelogis, 24: 304-328. 1932.
 — The distribution of lungs as compared with that of Phintregams. Assert J. Bot. 23.

246-254 1933

Are by us more to be found over the orean? Mycosoges, 27 84-85, 935.

 and Beasen, A. H. R. Prelimmery list of Mar tous long. Trans Brd Myr Soc. 8 51 169 1922

S 91 109 1922

— and DEANNESS, J. The Large of Manutobs, 94 pp. Longmans Green and Co.,

Loudes, 1923.

and Cornega: J. I. Plant diseases see to Mandoba. Sc. Agric. 8 456-458, 2028.

78. — and Balker D. L. The parasite fings found in Mandoba. Canada Dept.

Agree Div. Bot. Bull. 7: 77-83, 1929.

74. — Historian, J. F. and Groot H. Pitato seed freatment tests of Mauricha. Sc. Agric. 3, 219-221, 1922.

75 and JACKJON, V. W. Cerea, diseases in Marittobs. Man. Extension Bull., 71: 1-19, 1923. Revised as Man. Bull., 88: 1928.

76 James N and Timori's M. Fungi isolated from Manatchia soil in the plate method. Can. J. Research, 8, 262-272, 1983.
72 — Jameson, M. L. and Timorius, M. The func, fraund in positive.
Can. J. Research.

 — Jameson, M. L. and Timonin M. The fung, found in patter. Can. J. Research, 9-97-107-1933.
 Tand James, N. Fungi isolated from any profiles in Manyrobs. Can.

 Bessarch, C. 13, 47-45, 1935.
 Basseau, H. J. The ordus of Copermus lagopus and their relation with insects. Ann. Bot 45, 315-344, 1931.

Osdia, myosha and the diplosdization process in Coprisus lagopus. Ann. Bot. 48 727,732, 1662

- BROWN J. M., SANAGE, A., and ROBUSCO, A. D. A report of some investigations into the cases of urwest clover (Mellistius) disease. Sci. Agric. 13: 561-595, 1953.
 BCLEER, A. H. R. Rossarches on Facgi. Longmans, Green & Co., London.
- Vol. I. 287 pp., 5 pls. and 83 fgs. 1909.
 Vol. II. 492 pp., 157 flgs., 1922
 - Vol. III. 611 pp., 127 figs., 1924. Vol. IV. 329 pp., 4 pls. and 149 figs., 1981.
 - Vol. V 416 pp., 174 figs., 1833.
 - Vol. VI 513 pp., 231 fign., 1634.
- The rate of fall of fungus spores in still siz. Nature, 80: 186-187, 1969.
 The function and fate of the evolution of Corprises atramentarius, together with some
- general remarks on Coprasse fruit-bodies. Asia Bot 24 613-689, 1916. 55. — The production and liberation of spores in the gones Coperasa. Trans. Bert. Myc. Soc 3 348-369, 1911.
- Upon the retention of vitality by dreef fruit-bodon of certain Hymenemyzetes, metading an account of an experiment with liquid air. Trans. But. Myc. Soc. 4: 106-112: 1012.
- The fruit-body mechanism of Belbitius. Trans Brit Myc. Soz. 4: 235-238, 1912.
 Dis Erstugung und Befreuung der Sporen bes Copernus sterqu.duns. Jahrb. Wis-
- tennech Bot 56 290-320. 1918. 89. — Some critical remarks on he generic positions of Pasthyra urticasecola, Coprissus
- pleast: a and Pentbyrdis discrimina T. ann Brit Mye. Soc. 5 482-488, 1916
 98. Emays on wheat, 339 pp. The Macmilian Co., New York, 1919.
- The red squerel of North America at a mycephagist. Trans. Brst. Mys. Soc. 8: 353-392, 1920.
 Some comparative observations upon the shape of the bands and the mode of smore
- distherse in the Greunese and Hymenomycetes. Phytopathology, 10 315, 1920.

 93. Upon the oscillar function of the subsporsagual swelling of Pilobolus. Trans. Bett.
 Mws Res. 7 5 164 1971.
- Mye. Sov. 7. 61.64: 1921
 The hashwall and asidus. frust-histon of Discayounyces deliqueseens. Trans. Birst. Mye. Sov. 7: 226-230, 1932
- 95. -- Suga as mycophagists. Trans. Brit. Myc. Soc. 7, 270-283, 1922
- Experiments on sex in mushrooms and tondstools. Nature, 114–826, 1924.
 The plants of Canada, past and present. Trans. Royal Sec. Can. 3 Ser. 22. XXXIII.
- LVIII 1928.

 Some observations on the spore discharge of this higher furgi. Press. Fourth Internat. Congress Plant Se. J. Hason, T. 1827-1628, 1920.
- The hological eignificance of conjugate nuclei a Coprissus Isopros. Nature, 126: 686-689, 1990
- and Cammon, A. T. On the temporary suspenses of vitahity in the fruit-bodies of certain Hymnosomycetes. Trans. Ruyal Sec. Can. 6. Sec. 4. 78-78, 1912.
 and Lows, C. W. Upon the number of micro-organisms in the sar of Winninse.
- Trans Royal Soc Can 4 Sec 4 41-58, 1911

 109. and Newron, Donorus E. The matage metited of ideal-fisation of a Cogenius grow-
- ing on gorminating seeds of mangel and augar-met. Ann. Bot. 41 663-670, 1927.

 108. and Vantagroup, T. C. Violent spore discharge in Tilletts Tritus. Nature, 1.6.
- 994-985, 1925 See also 82, vol V 297 278, 1933.

 104 — The bolum-reserves of Omphala flavida, a leaf-spot furges Phytepathology,
 5, 83, 1926.
- CAUHANI, F. T. Asthma due to grain tusts. J. Amer. Med. Assoc. 83: 27, 1924.
 CRESSAIAN, W. N. A contribution to the inveologies, flore and the Mycetosos of the Rocky Mountains. Trans. Brid. Mrs. Soc. 2, 207-276, 1021.
- 107 Chinous N The Sy agaric and how it affects cattle. Ottawa Naturalist, 19 208 204, 1906.

- Davreson, A. M. and Downeso, Eczanon S. Tines barbae of the upper lsp. Arch. Dermat and Syph. 26: 600-662, 1982.
- and Buranas, A. H. R. Hyphal fusions in dermatophytes. Can. J. Research, 6, 1-20, 1932.
- —— and Grascows F. H. Last of fungs infesting mass in Manitoba. Car. J. Research, 7 283-295, 1902.
 —— Note on an investigation into the fluorescence of hairs infected by certain funging Cap. J. Research. 7 378-385. 1603.

 Can J Rassarch, 7 378-385, 1832.
 — Development of Luesaux aburospores, and spirals on detached hairs infected by ringworm fougt. Nature, 13, 895, 1903.

 — — Krites zarriers of Mirrospiron felineum and their detection by the fluoristensee test. Can. Med. Assoc. J. 20: 242-247, 1003.

114. In any cultures of derroatophytes. Can. J. Research, 10: 373-393, 1934

115. The ac-cacled messay (ungus as an majercellular deposit of cholesterol crystals.

J Amer Med Assoc 105 1992-1984 1935

116. — The dermatophyses of Manutoha Canada Delia JX Cong Interval Dermatol

1.17 (of provinc) 1, 1995

1 1-7 (of repriet), 1998?
117 — and Birr, A. R. The treatment of ringworm of the scalp by thall um aretain and the detection of carriers by the fluorescence test. Can. Med. Assoc. J. 20, 220.

119. DOWNING ELEANOR SILVEN. The sevenity of sormal, giant, and dwarf sporce of Pleurage asserting (Cee. Kuntae. Asia. Bot 46-114, 1931.

120. ---- The secondity of Accessions effectorizing and the transference of the order by mater and

Bios. Ann Bot. 45 621 637 1331

121 - Wallrothella Arreuthium, a paramte of the Jack-pose multitor. Can J. Retearch 5

219-230. 1931

Delamospora, a new group of Pyrenomycetes with period spores. Can J Rowards

9 294-303, 1833. (Work done at Ottawa.) 123. Etain, J. H. Observations on rust control. Mar. Extension Bull. 4t. 1.23, 1919.

124. Gregory P. H. The decreasisphetes. Bool Reviews, 10, 208-233, 1935.

126. Harria, W. F. The dre-needle method of making numer-poeurs caltures of Permananyesius.

126. HANNA, W.F. The dre-needle method of making monospecious ordinary of Promonomyest and other fungs. Ann. Bod. 38, 791-794, 1924.
196. vv. Pha treblatt of new or Communications. Ann. Bod. 39, 431-467, 1925.

27 — The inheritance of spore size in Coprinus sterquitum. Trans Brit Myr her II 219-238, 1926.

 Sexual atabe...ly in menosporous myerlis of Coprinus Isopput. Ann. Bot 42:379-389, 1928.

JACKSON V W. Putato discusses to Manatolin. Man. Extension Bull. 14-17-24-1917.
 Rusin and emutar of grain errors. Man. Extension Bull. 44-1-28, 1919.
 FARANTS W. P. and BALEY, D. L. The present status of the barberry conditation.

campage in Western Canada Sin Agric 5 375-379, 1925

182 Movices, Inusus Homeshalism and the production of Irint-bodies in monosporous invoces in the consist Continus. Trans. Best. Mys. Soc. 7, 198-217, 1921

188. Homethadises and heterorbad issue to the group Coprinus. Trans. But Mys. Soc. 7 285-298, 1922.

188. In production of four badges of Copping computers in laboratory cultures. Trans.

 The production of fruit bedges of Copensas constant in laberatory cultures. Trans. Bets Myc Soc. 8, 221–226, 1823.
 Nawron Doterney b. The lineweality of addendual strains of Copensus Restruptionus.

Ann. Bet 40: 105-128, 1926.

The distribution of specie of diverse sex on the hymnesum of Coprosts lagopus.

Ano. Dot. 40 891-917, 1926. 187 Bayada, A and Ira, J. M. A note on mycotic pneumonia of chickenia. Sci. Agric. 18 381, 1833.

 Theomer M. I. The micro-organisms in profiles of certain virgin sails in Manitobs. Can. J. Research, 13: 32-46, 1935.

Part IV Publications from the Dominion Rust Research

- [29] Bainey D. L. Studies in cornel diseases IV. Stem rust in western Canada. Can. Dept. Agric Bull. 106, 1928.
 140. and Canadra, J. H. Studies on the epidemiology of wheat stem rust in Manusoba.
- 1925. Add: (a Phytopathelogy, 6) 755, 1926.

 141 and Chinardy F J. Prelim rary experiments on the control of last and etam rulat of wheat by mainteed dust. Se. Agr. 6 115-117, 1928. Abot in Phytopathelogy, 16
- 64, 1925

 Field experiments on the control of stem rust by solphur dust. Sei. Agric. 7
- 155-156, 1927

 143. Dustrag with sulphur for the control of leaf and stem rust of wheat in Manatoba.
- with horse-drawn and acceptanc destees. After in Phytopathology, 18 480, 1998

 145. Brown, A. M. Dipkodestano of hapsend by diploid seynolism of Purcuin Helianthi Schw.
 Nature, 130, 77, 1602.
- A study of coal-scring haptered postules in Processes Helizarthi. Phytopathology, 25 (1985) 1990, 1935.
 Night and the interfact life of four streams of Processes Melizarthi Schor. Con. J.
- Number on the interfertably of four strains of Puscenia Helanthi Schw. Con. J. Research, C, 14, 361 357, 16th.
- receives, C. 14-301 207, 1855.

 148. and NASTON M. The dever' leaf rant of barley in western Canada (Puccinia accessis
 Rosts., Abst. in Phytopothylogy 18-481, 1978, and Sc. Agric 8-463, 1928.
- CONNEWS 1 L. Secul trendment for certail anists. Can. Dept. Agric. Circ. 56, 4 pp., 1927.
 CRADIN J H. Experiorests on new in rust fungs. Nature, 120. ;16:117–1977.
- Decovery of the function of the pyer as in rust Isang. Nature, 129: 763-767. 1927.
 Electrollas.inm in the rust Isang. Abs. in Phytopathology, 18, 147, 1928.
 Seculal behavior of Porcinia gramma. Adv. in Phytopathology, 18, 793, 1928, and
- Net Agree 8 462 1928

 151

 Un be occurrence of pyrous and socia in certain rust fungt. Phytopathology 18
- 1005-1015, 1928.

 An experimental investigation of sex to the rust fungs. Phytopathology, 21 1001-
- 1949. 1991

 Umon of pyroscoperes and hapless hyphse in Puccinia Helianthi Schw. Nature, 181
 25, 1932.
- 157 Spirmal of plant discuss as influenced by meteorological conditions. Proc. Pitth Paretr Sci. Concress. Lecture and Languages 1503, 1741-1747, 1934.
- Parofic Sci. Congress. Victoria and Voncouver 1993, 1741-1747, 1994.

 158. Recent advances in the bicogs of plant rusts. Proc. Fifth Pacific Sci. Congress,
- Victoria and Vanceuror 1843 3221-2227, 1934

 159 Gossov W L. Physiology furns of Porcana grammers Avenue Ericas. & Henn. in Canada.
- Abst. in Phytopothology 18 475-180, 1928, and Sex Agric 8 462-463, 1928

 160. BFert I temperature on host restricts to physiologic forms of Posenia grammas

 Avenue Erikasa & Henne Sci. Agric 11 36-103, 1930.
- Avenue Erikas. & Henn. Ser. Agree 11 98-103 1930.

 161 A stud, of the relation of environment to the development of the uncommod and telest
- stages of the physiologic firms of Pacolina grammic Avenue Krikae. & Henn. Sci. Agric 14. 184-287, 1933. 162. Sponges of Fluorium: soustes, from Stild crops: n. Maustoba. Proc. World's Grain
- epocates or rusarum monates, from field crops o Mauticles. Proc World's Grant Exhibition and Congress 1933, Regnes, 2 268-299, 2035.
- and Bassey, D. L. Physiologic forms of eat stem rues to Casada. Sci. Agric. 9: 50-38, 1928.
 and Wisser J. N. Gat etem rues revestigations in Casada. Sci. Agric. 13: 228-225.
 1822.

191

Ochthite, C. R. Bone applications of humstry to agronomic experiments. Sci. Agric. 7: 383-576, 1927.
 Breeding risk resistant varieties of white I-fundamental aspects of the problem. Sci. Agric. 19:100-07.

Modern methods of field experimentation. Ser Agric 11 681-701, 1931
 — Application of the variance analysis to experiments in orient rhemistry. Cereal

Chemistry, 9 239-260, 1602

160. — and Electro, A. T. A statistical study of the characters of wheat varieties influencing

yield. Sr. Agris. 6. 387-345, 1928.

Though the Agris. 6. 387-345, 1928.

Thought yelarasters we a series of bylind wheats. Cerca. Chemistry 11. 557-566. 1934.

171 and GREANET F.J. The relation between stem rust infection and the yield of wheat Bes. Agroc. 10. 403-410, 1030.
172 and Naugus, K. W. A study of disease rematance and other varietal characters of

172 and Nilayav, K. W. A study of disease rematance and other varietal characters of wheat application of the analysis of variance and correlation. Sci. Agric. 9: 575-585, 1920.

173 — Yexquency of natural crossing and its association with self-strukty in pure mes of Marchillo wheat. Sci. Agric. 9: 735-746, 1920

 —— Breeding rust resistant varieties of spring wheat J Amer Soc Agree 23. 859-870, 1931

and Wakast, J. N. The substrainer of remainine to Directing grations. Testes in a cross between two warstess of Truscom vogages. Phytopathology, 18, 834-656, 2016.
 Niceron M. and Binows, A. M. The resistion of wheat varieties at two stages of matricis to nestern between the property of the p

1930

177 Garanus F. J. Studies on the texters and fungridal efficiency of solphus dusts in the

control of some erreal rusts. Set Agric 8, 316-331, 1978.

The efficiency of various sulphore doubt, a mortrolling stem rust and tipe effect verous

of different rections of application. Proc. Can. Phytograth Soc. L. 2. Distance, 1930.
 on Bulghair dusting for he prevention of a function, disease of wheat called black chaff. Bc. Agric. B. 274-279. 1931, Abril. on Phytograph belong. 21. 127, 1933.

 The influence on virid and grade of harvesting rusted wheat at different stages of maturity. So. Agric 11 492-51. 1930.
 Sulphus deating of grain ploin for the control of rust. Domeson. Can. Dept. Agric.

Pampolet 172 1931

Experiments on the control of out rusts to suithur dust. See Agric 13 427 434, 1933

Methods of enumating less in vivid from cereal diseases. After in Phytopathology, 22 12, 1933. Proc. Weddin Graw. Exhab and Conference 1933. Regima. 2 224-235, 1935.
 Studies n scread diseases XI. The prevention of cereal units by the use of compostal.

dusta Demonson Can Dept Agric Bull. 171 1-90, 1934

Field experiments on the prevention of erreal rusts by supplur dusting (1990-1932)

8st Agric 14 696-511 1934, Free World's Grain Edub's and Conference (1933, Region.

2 286-288, 1935.

— Cercal runs lowers in wretern Canada. Sci. Agric 16 608-613, 1936.

187. — and Rature D. L. Studies in cercal discount II. Studies and factor and factor rule of wheat

1817 — and Halley D. L. Stunjes in cerval discussed 11. Repl-rots and lock cuts of wheels in Massitoha Dominiem Gan. Deepl. Agric Bull \$85, 1977.
185 — —— Shipher dusting for the control of leaf and steen rost in Manstolia. W nonpeg small-plot experiments. Admit in Phytopathology, 18, 426, 1928.

189 — and Mackarus J.E. The production of a whate feet is submer of Helmochoguerum antivam by meater of ultra-vascel radiation. Protropathology 23, 279-385 (ober p. 12), 1933.

Studies on the control of root-on discusses of creaks caused by Fusarium culmorum (W. G. Sm.) Face and Helmontoseporum nativism F. K. R. I. Field methods with root-on-diseases. So. Agric 15: 228-240, 1329.

 Studies (as above) II Pathogeness; of Helio athosporium set vom as influenced by Cephalothecom reseum Cords in preenhause not tests. Sec. Agric. 15, 377-388, 1935. 192 Girmow, H. T. and Covergus, I. L. Studies on cereal discases. I. Smut diseases of cultivated plants, their cause and control. Dominion Can. Dept. Agric. Bull. 81, 1-29, 1927. HAGRORG, W. A. F. Black chaff a composite disease. Can. J. Research, C, 14 347 359. 1058

196 Hamta W. F. Nuclear association in the accium of Puremia graminus. Nature, 124-287. 1929 Studies on the nature of rust resestance in wheat V. Physiology of the host. Can

J Research, 4 133-147, 1931 196. Nurlear association in the accrets of Pozzinia grammus. Abd. in Phytopathology, 21. 107, 1631 197 The odor of bunt spaces. Phytopathology, 22 978-979, 1932

198. The association of bunt of wheat with loose must and error. Aber in Phytomathology, 22: 10-11, 1832 The physiology of the fungs causing hunt of wheat Proc. Pifth Pacific Ser. Congress. 100

Victoria and Vancouver 1933, 3195-3204, 1934. 200. - Effect of vernalization on the incidence of loose smut in wheat Sci Agric 18 404.

ANT 1995 201 - - and Purr. W. Bunt of wheat in western Canada. Sci. Agric 11 200-207, 1980. - Relationship of the oat smuts Nature, 126 843-844, 1930. 202

203. - - - Physiologic forms of some amut of wheat. Abet in Phytopathology 22 11, 1932. 204 The overwintering of built spoces in western Canada. Bei. Agric. 18 636-687.

1883 Bust infection of apring wheat by soil-borne spores. Ecs. Agric. 14 257-258, 1934. Experiments on the control of loose smut of wheat by seed treatments Pro-

World a Grain Exhibition and Conference 1933, Regina, 2 243-248, 1935. Experiments on the control of cereal mouts by seed treatment. Set Agric. 18.

745-753, 1935 208 VICERRY, H B and PUCHER, G W The solution of trunethylamme from spores of

Ti letta levis, the steaking smut of wheat J Biol Chem 87 351 358, 1932 200. HOLLDFORMEAN, LOLGIAN A lethal factor in Cregos effective only in an inter-specific hyberd. Genetics, 15: 114-140, 1930

210 - The occurrence of unpaired chromosomes in hybrids between varieties of Triticum vulgare. Cytologia, 3 119-141, 1932. 211 - -- Partly fertile hybrids of common wheat with Khapli conmer J. Heredity, 28, 247-

253, 1932. 212. JOHANDS T Studies in cereal diseases. VI A study of the effect of environmental factors on the variability of physiologic forms of Purcinia gramme Trities Erikia. & Henn.

Doromon Can. Dunt. Asrac. Bull. 140, 1-76, 1981. 213. --- Germination of wheat stem-rust teleospores formed in the greenhouse. Abst. in Phytopathology, 21 108, 1931 214

- A troops response in germ tubes of irreducapores of Poseima grammis Tropes Phytopathology, 24, 80-82, 1934 215 and Joneson O. Studies on the nature of disease registance in occasis. II. The relationship between sugar content and reaction to atem rust of mature and immature

tumues of the wheat plant. Can J Research, 11 582-588, 1934. Studies on the nature of disease resistance in ogreals. III The organic nitrogen content of mature and immature timuse of the wheat plant in relation to elemental

216.

resistance Can J Hesearch, C, 13: 355-357, 1938. 217 and Nawrov. Manuaux. The occurrence of vellow stripe rust in western Canada.

Abet in Phytopathology, 18, 481 and Sci. Agric 8, 464, 1928. Hybridisation between Pacema gramma Tritici and Puccinia gramma Avenue.

218 Proc. World a Grain Exhib. and Conference 1933, Regins, 2, 219-223, 1985. 210 - and Brown & M. Hybridication of Pincenna gramma Trities with Pincenna

grammus Sanaha and Dunous a superiora Agreetative. See Agree 17 143-163, 1929. 220. - Further studies of the inheritance of spore color and pathogenicity in

grosses between physiologic forms of Puccinia grammas Trities. Ses Agric 14: 300-378, 1934.

182 FUNCT OF MANITORA AND SASKATCHEWAY

221 Macraces J. E. A simple method of obtaining Pethium cultures from from harters Phytopathology, 24 301 303 1934

222 -- and Gazzanev P. J. The effect of mechanical aced inversion the development of foot-rot is carealy. Can. J. Research 8, 276-281, 1935. Alat in Phytomathology,

23 22, 1933. 223 Studies on the central of received consents of reveals exceed by Posserous culmornin (W. G. Sm.) Sec. and Helmonthosporum astroom P. K. & B. III. Effect of seed treatment on the control of motors and on the visid of wheat. See Agree 16.

607-620, 1935. 224. NEATEV, K. W. The inheritance of quantitative and other character in a barley cross. Sci. Agrec. 7 77-84, 1920.

225 - An analysis of the interstance of qualitative characters and linkage is bories. Set Agric 9 701 718 1829

226 ---- Factor relations in wheat for resistance to groups of physiologic forms of Possitian gramique Tritici. Sei Agrie 12 130-154, 1931

227 A etuoruphyll mutation is wheat J. Hered to, 24, 159-162, 1933. 228. — The type of infection of wheat seedlings by Purcina grains a Tryles in the greenhouse

as a measure of the percustage infection in the field. No Agric 13 625-635, 1936. 220 and Goulous, C. H. The observance of rountance to Possima grammes Treties in grosses between varieties of Triticum valgare. Su. Agric 10 389-404, 1030

930 Newson Manager Stades in what stee and (Manager emones Tested) Toron Royal Soc. Can. 3rd Sev. 15., 63-210, 1922. (From work done at Sask and Minn.) 931 and Bayers A. M. Stocker on the resistance of about any pate to store your. Abst.

or Phytopathology, 23 25, ,933. 282. - - - Studies on the nature of disease revets or se revals. I The reartious t must

of mature and imposture tenues. Can. J. Research 11 554-53, 1924. 283. - JOHANNON R and JOHNSON T Autory of the overnound pagenters of accolamparent of wheat stem rust and four of its roote variance. Abd in Phytocounterings, 25, 20, 1025. 354

and Journey T. Physicophic forms in other men next to content Causalia, Inc. Agric 7 158-16, 1997 Georghams conserved to the relative married dutts of some wheat varieties

235

235

097

238.

239

240 -

to serves physiologic forms of wheat stem rust. Sc. Agrir. 7. 6. 165, 1927. Color mulations in Picce na grammas Tritics Phytomathology, 17 711-725. 1927 Studies in cereal diseases. VIII Specimination and hybridization of wheat

atem rust, Puccusa gramous Tratics in Canada Destinace Can Dest Agric Bull 160 1 00 1932 Stripe year Possessa abstransto in Canada. Can. J. Roscamb, C. 14. 80-108. 1036

and Banwa A. M. New physiologic forms of Puccinia gram na Triber. Ser. Agric 9: 209-215, 1928. - - Physiologic forms of wheat stem rust in Caracta. Also va Phytomathologic

18 478-479 and Sci. Agric 8 461, 1928 241 · - Reactions of wheat varieties in the seeding stage to physiologic forms of Paccunia grammon Tritici Sci Agric. 9: 056-061, 1929

248 A perlanguary study on the hybridization of physiologic forms of Puccinia grammes Tritte: Scs. Agric. 10 721-731, 1990. 243 ... - A study of the obertance of spore color and authoresons in crosses

between physiologic forms of Passinia gramious Testata. Sea Agric 10, 775-788, 1830. 244 -- Hybridgation of physicians forms of Process grammet Trates. Abst. on Phytomothelegy 20 112 1, 3, 1930.

245 - Hybridization between Passinia grammis Tritic, and Passinia gramms Secalis. Abd. in Phytopathology, 21 106-107 1931. 245

- Stripe rust in Canada. Abst in Phytopathology, 23 25-26 1933

- 247 Permanon, R. F. Stomutal behavior in relation to the brending of wheat for resistance to atem rust. Sci. Aspec. 12 155-173, 1931
- 248 Improvement of rye through inbreeding. Sc. Agric. 4 651 657, 1984.
- 249 Perturon, B. Effect of temperature on host reactions to payeiologic forms of Puccinia coronata Archae. Sc. Agric 11 104-110, 1930.

 250. Physiologic archae, Laston in Puccinia corona Avenue. Sci. Agric 15: 800-810, 1935.
- 251 Powe, W. A preliminary study of the reactions to access rust of certain wheat varieties in afferent stage of three[opment. Proc. Works a Gran. Eslith. and Conference 1963. Repna. 2 238-242, 1985.
- 252 and Harma W F Station on the physiology of the out musts. Sec. Agric. 15 424-483, 1035, see also Proc. WorkFa Gran. Erbib. and Conformer 1933, Regins, 2, 255, 1935.
- 203 Winner J. N. The inheritance of stem rust and smut reaction and lemma color in cata. Sci. Agric 12 209-242, 1931.
- 254 The effect of amult on runt development and point vigur in oats. Sci. Agric. 13 154-164 ,932

XIX. INDEX TO GENERA AND ORDERS OF FUNGI

The first figure after a name refers to the page of entry m the Last of Spectes. An Hairman figure refers to the page where the groun is antered as a synonym.

Abadia, 22, 16 Assothostumes, 50 Achorson, 141 Acrestonuella, 112 Acrospormum, 45 Acrostalagmus, 112 Aptinomyons, 112, 85 Actinggams, 128 Augurita, 77 Agaricacean, 85, 16, 22 Aguryoslon, 75 Albugo, 29 Aleuras, 35 Aleurupa, 35 Alestrodises, 9.75 Alternaria, 112, 16 Amanita, 85, 18, 22 Amandanus, 85 Attechisphners, 52, 54 Anaphataus, 29, 21 Appllares, 107 Anthostoms, 58 Authortomells, 56 Amorozene, 44 Arnehosetur, 24 Arachmenura, 38 Arcyrus. 25, 56 Armillarus, 95, 22 Arthrobotave, 112 Ascobelue, 35 Aecocalys, 38 Atcorbyta, 133, 135, 141

Anoepharia, 35 Anoerichia, 47 Anoerichia, 147 Anoerichia, 147 Anterina, 47 Anterina, 47 Anterina, 132 Anterioa, 132 Anterioa, 132 Anterioa, 132 Anterioa, 132 Anterioa, 132 Anterioa, 147 Anterioa, 148 Anterioa, 147 Anterioa, 14

Assetsyceton, 24, 21

Bacillus, 27, 14 Bacteris, 27, 20 Ractorium 28 Bactridum, 213 Radbamia, 25 Basidiophora, 29 Basisporum, 18# Benuversa, 113, 16 Berten, 50 Bertsella, 50 Bolbstrus, 98 Boletmus, 85 Boletus 85, 15, 22 Bombardia, 47 Bothredisens, 38 Botzvohendium, 25 Botryophoma, 132

Botryosphaeria, 59 Botryotrichum 113 Botryta, 113 Bovista, 111 Brema, 30 Brenckies, 133 Bulgaria, 36 Bullera, 60 Cadophora, 141 Caldeszilla, 78

Caldestella, 79
Calicium, 28
Calloria, 38
Calorera, 74
Caloden, 79
Calonsetria, 45
Calcephaeria, 80

Calcopineria, 45
Calcopineria, 50
Calvana, 111
Camacospicium, 102
Oandida, 141
Canthavillus, 85, 22
Catualia, 38

Catinila, 38
Catinila, 182
Canangium, 39
Cophalosporsum, 113, 10

Cophalothecum, 188 Cophalothecum, 188 Coratesmyza, 25 Coratestoma, 51

Curcoseptora, 114 Curcoseptora, 114, 18, 23, 119, 180

Cercosperella, 115 Cercospera, 53 Chaeteeladium, 22 Chaetensella, 122 Chaetensem, 47

Cheetosphaeria, 50, 116 Cheilymenas, 57 Chloroeiboria, 59 Chlorosplenium, 39 Choodromyoes, 24 Chromoero, 45 Chromoera, 45

Chyrodialos, 29, 21 Choris, 30, 21, 40 Cicinnobelus, 182 Cienkowskis, 25 Cintractis, 60

Cintractia, 60 Cladochytrium, 80 Cladocporium, 116 Cladotrichum, 116 Clasterosporium, 116 Clasterosporium, 116

Clavaria, 79, 18 Clavariacene, 79, 14, 22 Clavineps, 45 Clithris, 42

Clitocybe, 95, 18, 22

Cistopilus, 98 Colsosportum, 68 Colletotrichum, 129 Collybas, 87, 15, 18, 22 Contatricha, 25

Consochaeta, 48
Consophores, 75, 76
Consobhecrum, 116
Consothecrum, 116
Consothyrium, ,52
Coprinus, 107, 15, 28
Cordyoeps, 45, 16

Coremum, 116 Cortinue 75 Cortinarius, 93, 23 Coryne, 30 Coryneum, 129, 118 Centerellus, 76

Centercura, 16
Centercura, 25
Ceronectzia, 45
Crepedotus, 100, 18, 23
Cribraria, 25
Cronartrum, 63
Cruchulum, 111
Cryntemyon, 42

Cryptosphaeras, 57 Cryptosporal, 58 Cryptosporella, 58 Cryptosporapsos, 132 Cryptosporarum, 120 Cucurbitarus, 51 Cucurbitarus, 52 Cucurbitarus, 54

Cunninghamella, 32 Curroyalia, 46, 63 Curvolaria, 160 Cyathus, 111 Cylindreum, 116 Cylindreonyes, 116, 18 Cylindreonyes, 116, 18

Cylindrocoxia, 116
Cylindrosporium, 120
Cyphella, 78
Cystopus, 89
Cytislin, 76
Cytospora, 182
Daceyonayees, 74

Dacryomycetales, 74, 14, 21 Daciylium, 116 Dacdates, 82, 16 Dachaes, 83, 16 Darbes, 183, 16 Dayscyphs, 39 Daltachas, 48, 60 Datatron, 141 Dentisum, 83 Dermales, 38 Demales, 78 Duchass, 25 Disnems, 25 Disporthe, 57, 14, 2; Distryoe, 58 Distrybula, 59 Dibetryon, 46, 15 Dichaena, 43 Discousing, 116 Distantianthalism, 25 Dictydram, 25 Distyophore, 110 Distyosponum, 187 Dictyonte.rum, 24

Dederma, 28 Didymaria, 117, 119 Dademalla, 53 Dulymelins, 53 Didymeam, 25 Didymosphaeris, 54, 20 Desphospera, 183 Dinematpecium, 133 Diplocarpon, 47 131 Diplod.a, 133, 18 Dieloton, .38 Datema, 38

Dacuerda, 111 Dacous, 133 Degenations, 60 Dethoshus, 183 Dothuces, 47 Dothogeales, 46, 21 Durandsonsyees, 35 Receilia, 96

Eschlerodla, 74 Elautheromyons, 45 Elanos, 46 Empues, 23, 16 Endorope, 32 Radomyconese, 141 Endonsthella, 47 Entersdrum, 28 Resoluma, 98

Entemophthorales, 83, 21 Enternosperum, 130 Entylogna, 60 Epichice, 45 Encoccum, 117 Knidermonhyton, 141 Erveiche, 44 Buretum, 34

Eutypa, 57 Butypella, 57 End.s. 74 Expancales, 34 Exobaudium, 77 Expenseium, 117 Fabraca, 40 Favelue, 81 Fenestella, 57 Firectoria, 49 Fistulina, 81, 18 Flammun, 101

Pomes, 81, 141, 15 Frankiells, 28 Police, 26 Fumage, 117 Puppi Imperfects, 1,2, 15, 21 Fusacium 117, 141, 16, 23 Fusicindum, 119

Geartes, 211, 110, 141 Gelseenemers, 48 Geoglossum, 34, 21 Geomyoos, 119 Georgy 38, 20, 40 Geotrichum, 119 Gibborella, 46, 18 Gliocladium, 119 Glososparsum, 180, 181 Glomerclana, 119 Gionnam, 43 Guomonus, 86 Guomenuella, 56 Godrenia, 40 Gemphotose, 110, 23 Grandiers, 80 Graphoda, 61 Graph.m. .19 Granbyl, som. 43 Gueptnas, 74 Сутрования, 34 Сущосевыя, 64 Gymnosporangium, 64 Gyronsphalus, 24

Galera, 101, 28

Gyranutes, 24 Hadrotzychum, 119 Hamesus, 133 Halbanosila, 47 Hapleszachum, 119

Haplesporells, 133 Нагровродици, 119 Hebelette, .01, 23 Helicobanidium, 125. Heliopelpen, 74 Helicoms, 110 Haliceon, 120 Heliotoyces, 120 Helmunthosphaeria, 60

Helmsathosocrium, 120, 119, 16, 23 Helotman, 40

Helvelia, 34, 18

Hercoum. 80
Hateropatella, 138
Haterosporium, 120
Huggeste, 129
Hormactat, 121
Hormacum, 131

Humosteodros 121 Humosrosa, 38 Hyalopona, 63 Hyalopona, 121 Hydracosa, 70, 14, 22 Hydram, 80, 79 Hygrophavus, 85, 23 Hymnosodrafa, 77

Hymenogaster, 110 Hymenogaster, 110 Hymenogastrales, 110 Hymenouls, 187 Hypholoma, 105

Hypochrus, 77, 76
Hypochrus, 77, 76
Hypocres, 46
Hypocres, 46
Hypocresies, 45, 15, 21
Hypoderma, 43

Hypodermetts, 43 Hypomycot, 46 Hypoxylon, 59 Hysterases, 48, 21

Hysterum, 43 Hysterographum 43 Hysteropateils, 40

Hosporum, 121 Inocybe, 102, 28 Ithyphallus, 110

Kareches, 40 Keitermannes, 188 Karecheteunella, 52

Laboullbeam, 60 Laboullbeamles, 60, 16, 24 Laboullbeamles, 63, 16, 24 Lacoura, 89 Lacharen, 36, 37 Lacharilla, 40, 37 Lacharilla, 45, 57

Lechnum, 40 Lectarius, 89, 28 Legens, 29 Legenodium, 29 Lemproderma, 26

Lamprospers, 36 Lamprospers, 36 Lampbolus, 36 Lambotrys, 44
Lamosphorra, 51
Lenotgrapha, 40
Lemorners, 121
Lentinus, 90
Lenzies, 81, 85
Lenzwan 28

Leotes, 35 Leptente, 30, 48, 23 Leptente, 97 Leptesphagers, 54, 65 Leptestrome, 123, 128 Leptestryrum, 134 Lengedochemes, 121

Laberteds, 130 Laces, 25 Lophodium, 52 Lophospharers, 52 Lophostoms, 52 Lophum, 43

Lophium 43 Lophodermum 43 Lovogala, 26 Lycoperdales, 1,0. 23 Lycoperdon, 111, 141

Macrophona, 134 Macroporium 121 Macastiue, 91, 23 Marastiue, 180

Marosonina, 130 Massarra, 56 Massarratia, 56 Mastarratia, 56 Matampaora, 63 Melampaora, 63

Melampsoridium, 63
Melamponislee, 128
Melamponispus, 140
Melamponium, 131
Melamponium, 151
Melamponium, 54
Melamponium, 54

Melancepors, 46 Melasters, 36 Melogrammataceae, 59 Membranesorus, 28

Membraneserus, 28 Meruirus, 82 Mesebotryu, 121 Metacrhasum, 121 Metasphacras, 54

Metasphacra, 54 Microdylodia, 134 Microsphacra, 134 Microsphacra, 44 Microsporea, 141 Microthyraues, 47

Mitrula, 35

Modrcella, 38 Molhsin, 40 Monssous, 34 Monilla, 121, 15 Mon: sales, 112 Menorhueta, 131 Megatospara, 121 Montagnella, 47 Morobada, 35 Mortierella, 32, 16, 21 Murilaro, 26 Maror 32, 16 Muscrales, 32, 15, 16, 21 Mutress, 110 Mycena, 81, 23 Myccnasteum, 111 Mycoderma, 122 Myrogone, 129, 15, 181 Mycoeuhaerella, 53, 141 Myrsoconum, 122 Mytaldion, 43 Mysobseterinceae, 24, 15, 20 Mysecoerus, 24 Mynomycetes, 25, 16, 20 Mysosper.um, 131 Napsoladium, 129, 110 Vertria, 46 Nidmana, 111 Nutraguates, 11., 23 Surromore, 122 Nolanes, 97 Nummalaria, 60 Nymormora, 64 Orellares, 42 Odesta, 80 Ordorrphalom, 122 Ordindenstron, 142 Olivanens, 26 Olpidaster, 29, 18 Olpid-um, 49 Omudeston, 03 Onvectos, 34 Justines, 122 Uphrebolus, 55 Jphroeiadam, 122 Uplnedoths, 47 Orbiothera, 25 Orbiba, 4. Ostrops, 42 Otthu, 52 Qvulstra, 122 Oxydontin, 80 Osophum, 122

Pachybasium, 122 Pascilomyres, 122 Panasolus, .16, 23 Panys, 13 Papularia, 122 Patella, 36 Patellea, 41 Patmella, 47 Posillus, 104 Peekaya, 40 Peditospors, 122 Pental tum, 123, 16, 128 Proumbers, 77, 80 Perichorna 76 Penderme m. 68 Permperioles, 44, 21 Peronospora, 30, 21 51 Peronosporales, 29, 21 Pestagonna, 131 Peting, 47 Lessener, 35, , 5, 21 Lexister, 41 1 haridisles, 42, 21 I halishs, 1-0, 28 Change, 41, 40 Phlycoura 144 Phonets, 104, 23 Photos, 184 142 Phonatomore A5 Phamopris, 134 Phone measure, 64 Phycornyers, 82 Physomyeetes, 29, 21 - bylfactions 44 l byllosticta, 134 Physalosporn, 55 Physarolla, 35 Physarum, 26 Physoderma 20 Phytophthore 30, 15 Pageotra, 133 Plana, 32 Pileolaria, 65 Punbasus, 32 7*mtocephalis, 83 Piriculario, 124 Patillana, 79 Payrosporon, 141 Piaconchaera, 136 Plaguodisphora, \$8 Pleamopers, 31, 15

Platygioce, 74 Piectanis, 37, 18 Piectanis, 34 Piecodomus, 136 Piecophaerulins, 55 Piecophaerulins, 55 Piecopore, 55 Plemege, 48 Plemege, 48 Plemeghis, 46 Plemeghis, 46 Plemeghis, 46

Pleurege, 48 Pleuregia, 58 Plowrightin, 49 Plutetus, 105 Plutetus, 97, 25 Podyapasars, 44 Podyapasars, 51, 16, 29 Podyapus, 82, 15, 18, 20 Podyapus, 124, 116 Podyapus, 124 Podyapus, 124

Ports B4, 22
Poros B4, 22
Porostelium, 85
Propoliu, 42
Prureltus, 91
Pralliots, 106, 15
Prathyre, 106, 23
Prathyre, 101, 23

Pseudobalantes, 44, 15 Pseudomonas, 28 Pseudoperosospora, 31 Pseudopestas, 41, 40 Pseudopestas, 63 Pseudopestas, 97

Patudoptectania, 37 Palloyde, 105, 28 Pallopeia, 37 Ptecola, 79 Ptychognatur, 74 Puncasia, 65, 14, 15, 18, 20 Puncasiatrum, 68 Puncasiata, 136

Pyrenoperies, 41 Pyrenophors, 66 Pyrenoms, 38 Pythuga, 31, 16, 17 Radulum, 80

Rammaria, 124 Retscularia, 27 Rhabdospora, 136 Rhmotrichum, 125 Rhmotrichum, 125 Rhacctomis, 125, 16 Rhacctomis, 125, 16

Rharegans, 44 Rhisopogun, 110 Rhasepus, 33, 16 Rhopalconyces, 126 Rhynehosporium, 126 Rhynehosporium, 126 Rhytume, 42 Rosellinis, 51 Ruspils, 94, 23 Saccharamyers, 34

Saccharemyere, 34
Saccobitustis, 74
Saccoborus, 35
Saprologno, 29, 21
Sarcodon, 81
Saccocyphe, 37
Schopophyllum, 95, 13

Behanozylov, 42 Behanozylov, 42 Behanozylov, 31 Sederotama, 41, 22 Behanozylov, 128 Beodelliva, 128 Seefeconectria, 46 Seefeconectria, 46 Seefeconectria, 128, 119

Scepularus, 125 Scepularuspas, 126 Schaessa, 74 Secotum, 130 Sepedorium, 126, 15 Septosylaudram, 127, 166 Septosylaudram, 127, 166 Septosylaudram, 121, 169 Septosylaudram, 131, 169

Deprogreem, 131, 788
Beptemyse, 127
Septeria, 137, 142, 14, 78,
Sepuliaria, 28
Seymesellas, 47
Solenia, 76
Bordazia, 48, 15
Sordaziaecao, 47, 15
Sorodacus, 29
Soromerum, 61

Spathulera, 35 Sparre, 127 Sphaceles, 127 Sphaceles, 6. Sphacelle, 53 Sphacetolous, 112 Sphacetolous, 112 Sphacetolous, 140 Sphacetographium, 140 Sphacetographium, 140 Sphacetouma, 140

Spinserographitum, 140 Spinserometa, 140 Spinserometa, 140 Spinseropealae, 131 Spinseropealae, 160 Spinseroblees, 44 Spinseroblees, 44 Spinseroblees, 44 Spinseroblees, 45 Spondylocladium, 127 Sporedecloragea, 50, 21 Sporedecloragea, 50, 21 Sporedecloragea, 50, 21 Sporedecloragea, 50, 21

Sporedennum, 127 Sporedinis, 23, 15 Sperentia, 50 Speretrickum, 127 Stachybotrya, 127 Starenomora, 540 Steecherinum, 81 Stegnaosporugus, #31 Stumonitus, 27 Stemphytium 197 Storeum 78. Nuctus, 42 Nurmates, 42 Stilbum, 127 Streptethrix, 127, 142 Stropharts, 106, 104, 18 Syncophalastrum 33

Syncephalis, 23

Nynekytrzun, 29 Tapeco, 42 Taphrica, 34 Therishoom 39 Tereboroore, 52 Tetracladium, 127 Theoretideope, 43 Thecophorn, 14. Thereholes, 33 Theisphern, 79 Thelephoreceae, 75, 14, 22 Therlayan 34 Thrvidium, 57 Thoromectris, 46. Tauchadam 127 Titacorpore, 131 Torols, 127

Trusteten SA El Transachess, 72 Tremella, 74 Tremellales, 74, 14, 21 Tremellodon 74 Truckia, 27 Trichocadum, 127 Trichoglossum, 35 Trickelome, 95, 23

Trachadeemn 198 16 Trichopenna, 42 Triphophyton, 141

Trichomorium, 128 Trichethectum, 128 Tr.nmatostroma, 128 Trinscrium, 128 Tropps, 95 Tabaria, .05 Tuber, 44 Tubermen, 44, 21 Tubeculara, 128 Tuberculius, 128, 16 Tubufera, 27 Tulsanela, 74 Tyloptoms, 111 Tympanu, 42 Typhedium 46

Typhula, 79 Ulostein, 74 Underwoodis, \$5, 15 Leedmanes, 62, 20, 21 Uredancesis, 64 Urrole, 38 Lescrets, 61 14, 18 Urussycse, 72, 14, 15 Urophlystia, 29 Untilsginnles, 60, 21 Vetilago, 61

Valeu, 57 Valuera, 58 Valorita, 58 Venturo, 56 Verreeularia, 129 Verps, 35 Vert oillium, 128, 15 Vototella, 128 Voivaria, 98, 18, 23

Wallcothella, 51 Weinowica, 141 Xylaria, 60, 21

Ziennebe, 5. Zygorhynchut, 33 Zypomermella, 50









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